

2025-Jul-20

MPC code: 809

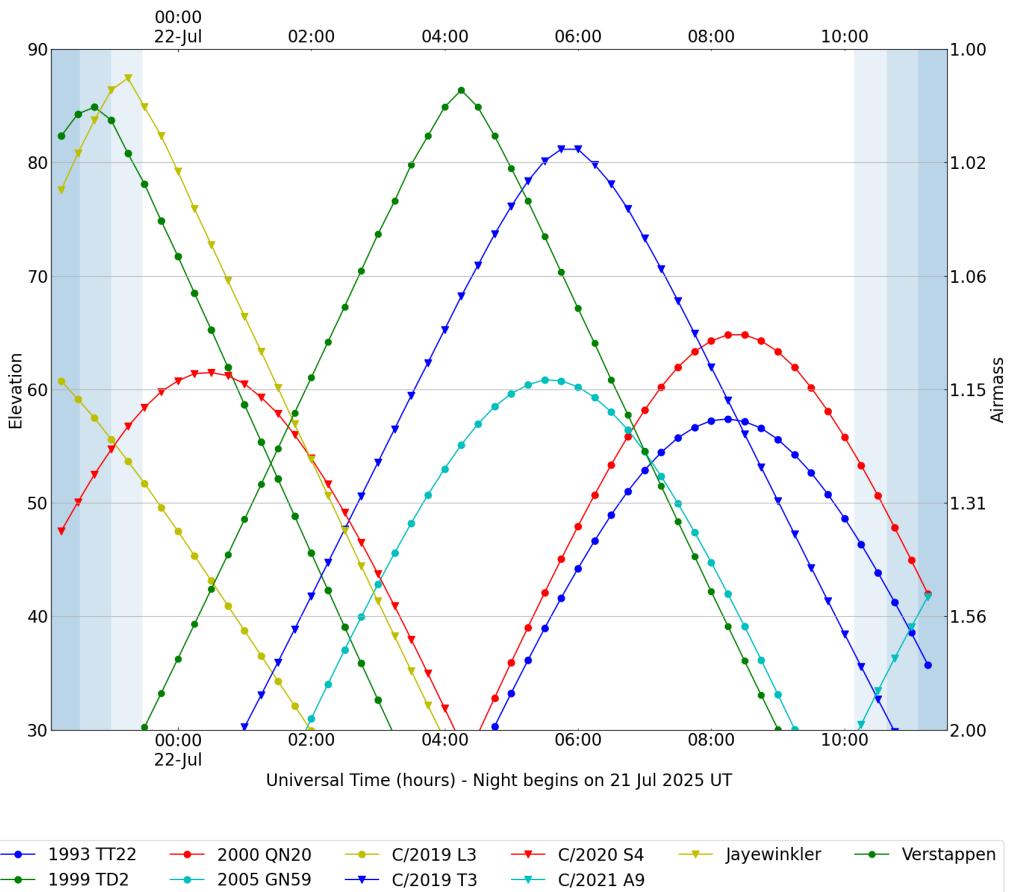
Sunrise-Sunset: 22:05 - 11:32 UT

Twilight-Twilight: 23:28 - 10:10 UT

Night lasts: 13.4 / 10.7 hours.

Lunar Illumination: 0.16

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2019 L3	12:01:43	-53:40:54	18.83	0.189	3.75	124.1
1999 TD2	13:55:48	-23:53:35	19.84	0.596	5.00	143.8
Jayewinkler	14:25:39	-32:27:34	17.32	0.533	5.50	151.3
C/2020 S4	15:43:06	-0:35:50	20.83	0.111	5.75	150.5
Verstappen	19:31:39	-33:31:57	17.10	0.565	9.25	141.9
2005 GN59	20:53:20	-0:12:55	18.33	0.865	7.00	112.8
C/2019 T3	21:08:20	-38:15:05	21.37	0.264	9.50	123.0
1993 TT22	23:30:49	3:14:43	18.85	0.144	6.25	76.4
2000 QN20	23:39:09	-4:16:13	18.89	0.242	6.50	78.1



2025-Jul-21

MPC code: 809

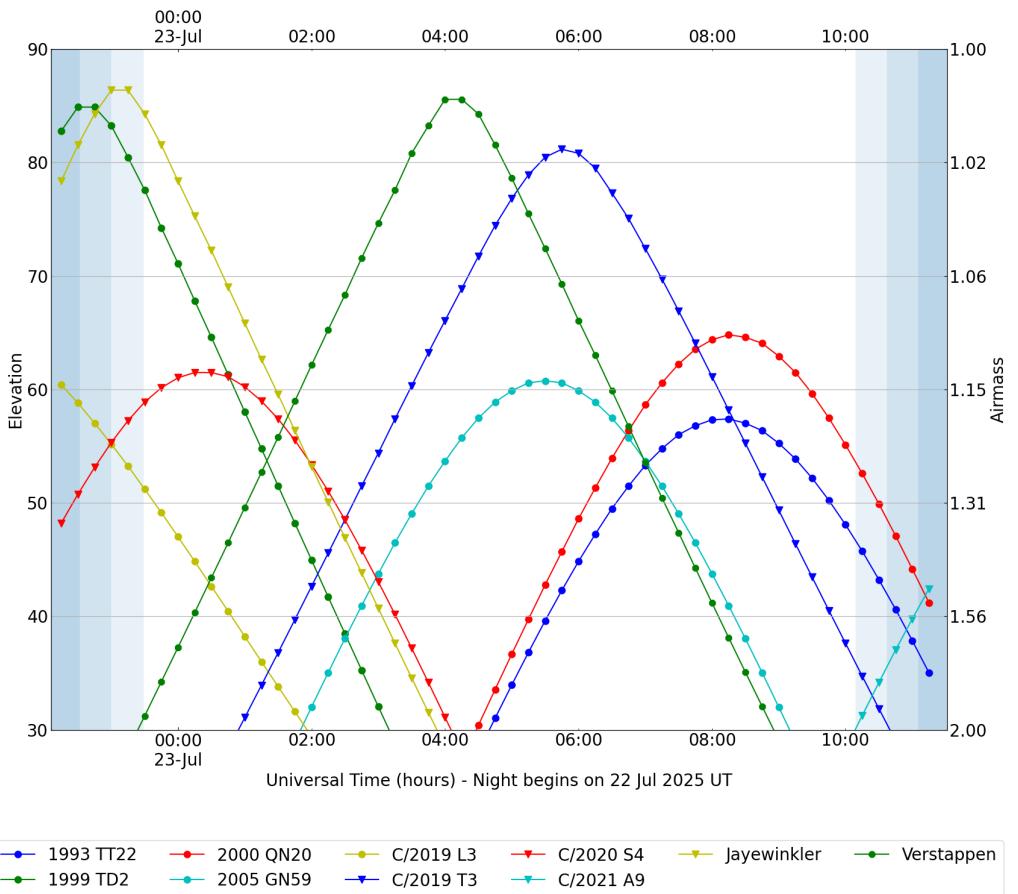
Sunrise-Sunset: 22:06 - 11:32 UT

Twilight-Twilight: 23:28 - 10:09 UT

Night lasts: 13.4 / 10.7 hours.

Lunar Illumination: 0.09

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:29	3:50:07	20.06	0.105	1.00	26.5
C/2019 L3	12:02:09	-53:38:27	18.83	0.190	3.50	115.8
1999 TD2	13:56:42	-24:01:25	19.86	0.609	4.75	130.2
Jayewinkler	14:26:37	-32:23:22	17.34	0.543	5.50	138.5
C/2020 S4	15:43:02	-0:38:17	20.84	0.111	5.75	140.6
Verstappen	19:30:37	-33:31:37	17.12	0.559	9.50	155.8
2005 GN59	20:52:00	-0:08:14	18.27	0.894	7.25	126.1
C/2019 T3	21:07:53	-38:18:27	21.37	0.265	9.50	136.1
1993 TT22	23:31:03	3:15:36	18.83	0.123	6.50	90.4
2000 QN20	23:39:24	-4:11:41	18.87	0.225	6.50	92.1



2025-Jul-22

MPC code: 809

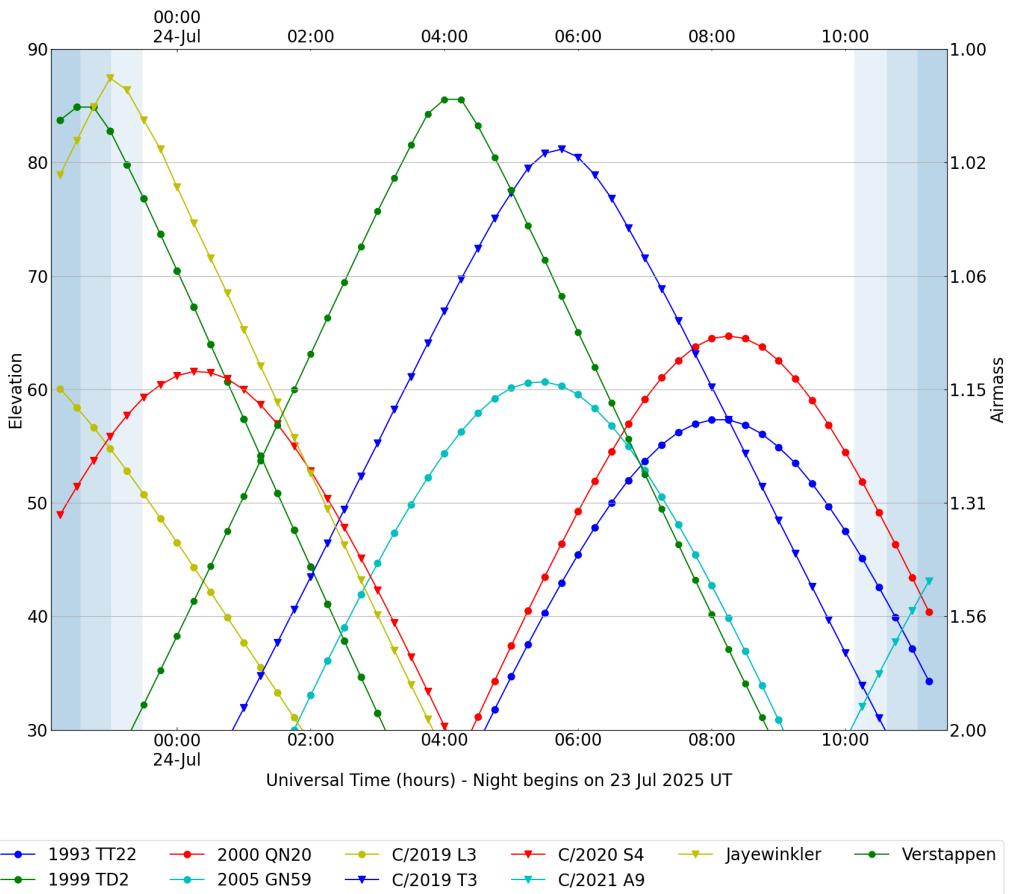
Sunrise-Sunset: 22:06 - 11:31 UT

Twilight-Twilight: 23:29 - 10:09 UT

Night lasts: 13.4 / 10.7 hours.

Lunar Illumination: 0.03

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:36	3:48:16	20.06	0.104	1.00	34.6
C/2019 L3	12:02:35	-53:36:04	18.84	0.191	3.50	106.5
1999 TD2	13:57:37	-24:09:17	19.88	0.621	4.75	116.6
Jayewinkler	14:27:36	-32:19:19	17.35	0.554	5.50	125.3
C/2020 S4	15:42:58	-0:40:45	20.85	0.110	5.75	129.0
Verstappen	19:29:35	-33:31:04	17.14	0.553	9.25	168.6
2005 GN59	20:50:38	-0:03:50	18.23	0.922	7.00	138.7
C/2019 T3	21:07:25	-38:21:47	21.37	0.265	9.50	148.4
1993 TT22	23:31:15	3:16:14	18.81	0.102	6.50	104.3
2000 QN20	23:39:37	-4:07:19	18.84	0.208	6.75	106.0



2025-Jul-23

MPC code: 809

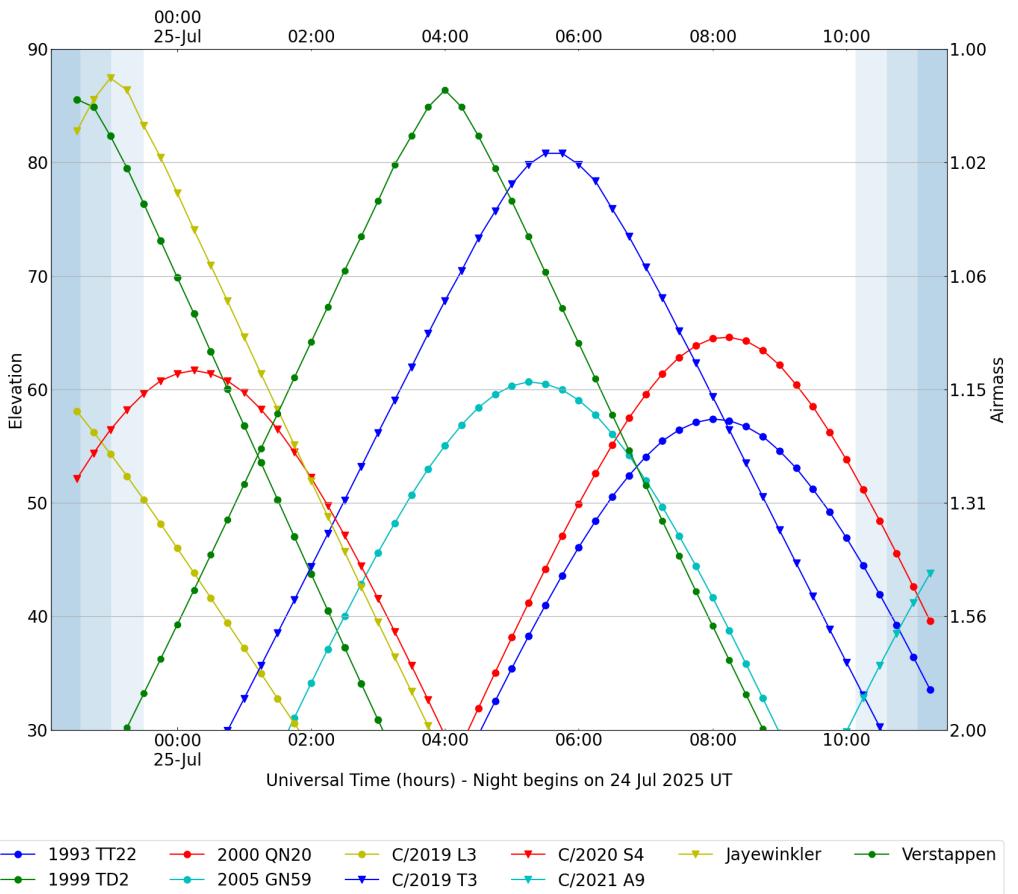
Sunrise-Sunset: 22:07 - 11:31 UT

Twilight-Twilight: 23:29 - 10:08 UT

Night lasts: 13.4 / 10.7 hours.

Lunar Illumination: 0.01

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:42	3:46:23	20.06	0.103	1.00	45.2
C/2019 L3	12:03:01	-53:33:44	18.84	0.192	3.50	96.8
1999 TD2	13:58:34	-24:17:11	19.89	0.633	4.75	103.2
Jayewinkler	14:28:36	-32:15:23	17.36	0.564	5.50	112.1
C/2020 S4	15:42:55	-0:43:15	20.86	0.110	5.75	116.8
Verstappen	19:28:34	-33:30:18	17.16	0.546	9.25	171.4
2005 GN59	20:49:13	0:00:17	18.18	0.951	7.25	150.0
C/2019 T3	21:06:58	-38:25:04	21.37	0.265	9.50	158.5
1993 TT22	23:31:25	3:16:38	18.79	0.082	6.50	118.0
2000 QN20	23:39:48	-4:03:07	18.82	0.192	6.75	119.8



2025-Jul-24

MPC code: 809

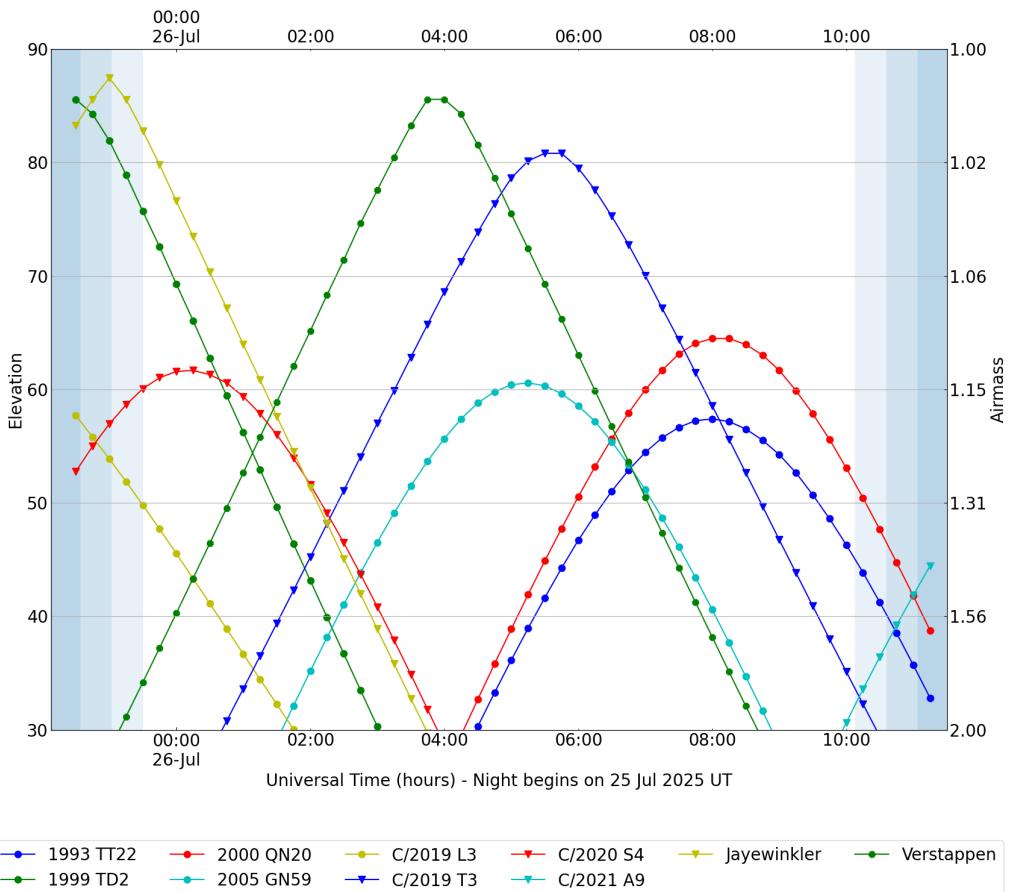
Sunrise-Sunset: 22:07 - 11:30 UT

Twilight-Twilight: 23:30 - 10:08 UT

Night lasts: 13.4 / 10.6 hours.

Lunar Illumination: 0.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:48	3:44:27	20.05	0.102	1.00	56.8
C/2019 L3	12:03:28	-53:31:26	18.85	0.193	3.25	87.0
1999 TD2	13:59:32	-24:25:10	19.91	0.646	4.50	89.8
Jayewinkler	14:29:39	-32:11:34	17.38	0.575	5.25	98.9
C/2020 S4	15:42:52	-0:45:48	20.86	0.109	5.25	104.3
Verstappen	19:27:34	-33:29:20	17.18	0.539	9.50	159.8
2005 GN59	20:47:45	0:04:07	18.13	0.979	7.00	158.1
C/2019 T3	21:06:30	-38:28:21	21.38	0.265	9.50	162.5
1993 TT22	23:31:34	3:16:47	18.77	0.061	6.50	131.6
2000 QN20	23:39:57	-3:59:03	18.80	0.176	6.75	133.4



2025-Jul-25

MPC code: 809

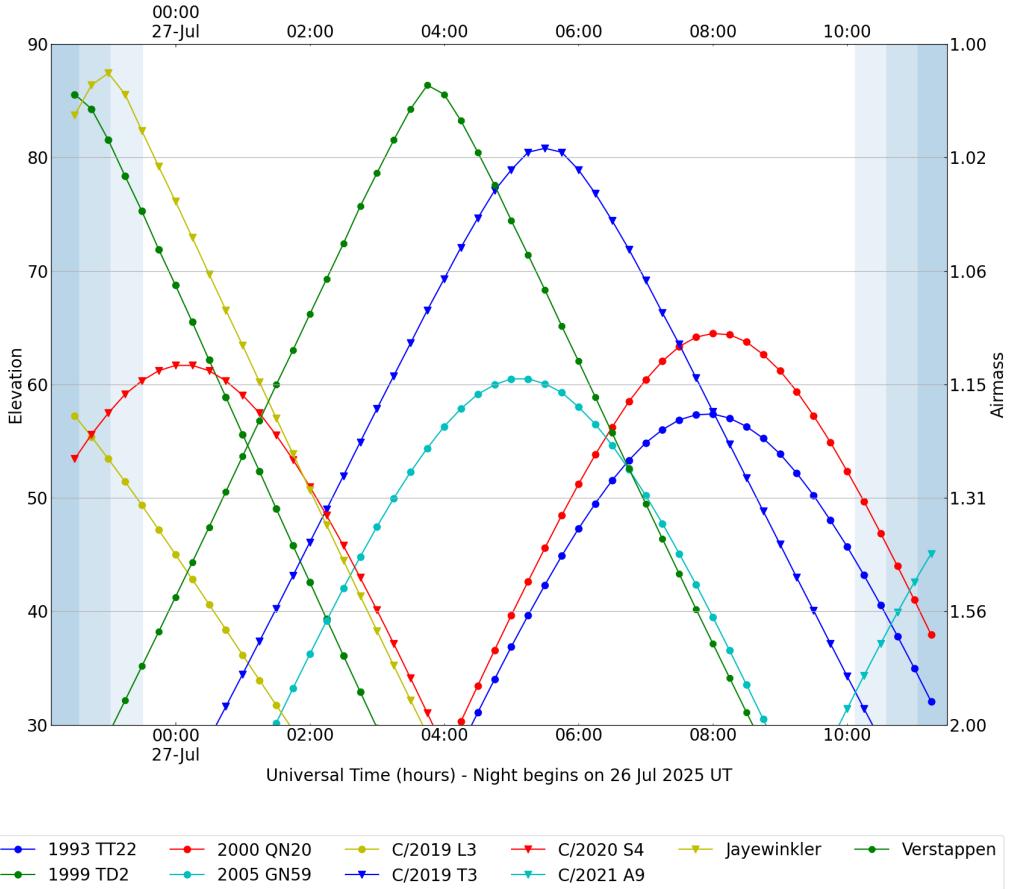
Sunrise-Sunset: 22:08 - 11:30 UT

Twilight-Twilight: 23:30 - 10:08 UT

Night lasts: 13.4 / 10.6 hours.

Lunar Illumination: 0.02

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:54	3:42:29	20.05	0.102	1.25	68.6
C/2019 L3	12:03:55	-53:29:13	18.85	0.194	3.25	77.5
1999 TD2	14:00:31	-24:33:10	19.92	0.658	4.50	76.9
Jayewinkler	14:30:42	-32:07:54	17.39	0.586	5.00	86.1
C/2020 S4	15:42:50	-0:48:22	20.87	0.109	5.25	92.1
Verstappen	19:26:35	-33:28:10	17.20	0.530	9.25	146.9
2005 GN59	20:46:14	0:07:37	18.08	1.006	7.00	159.1
C/2019 T3	21:06:03	-38:31:34	21.38	0.264	9.50	157.6
1993 TT22	23:31:40	3:16:41	18.75	0.043	6.75	144.8
2000 QN20	23:40:04	-3:55:10	18.77	0.163	6.75	146.6



2025-Jul-26

MPC code: 809

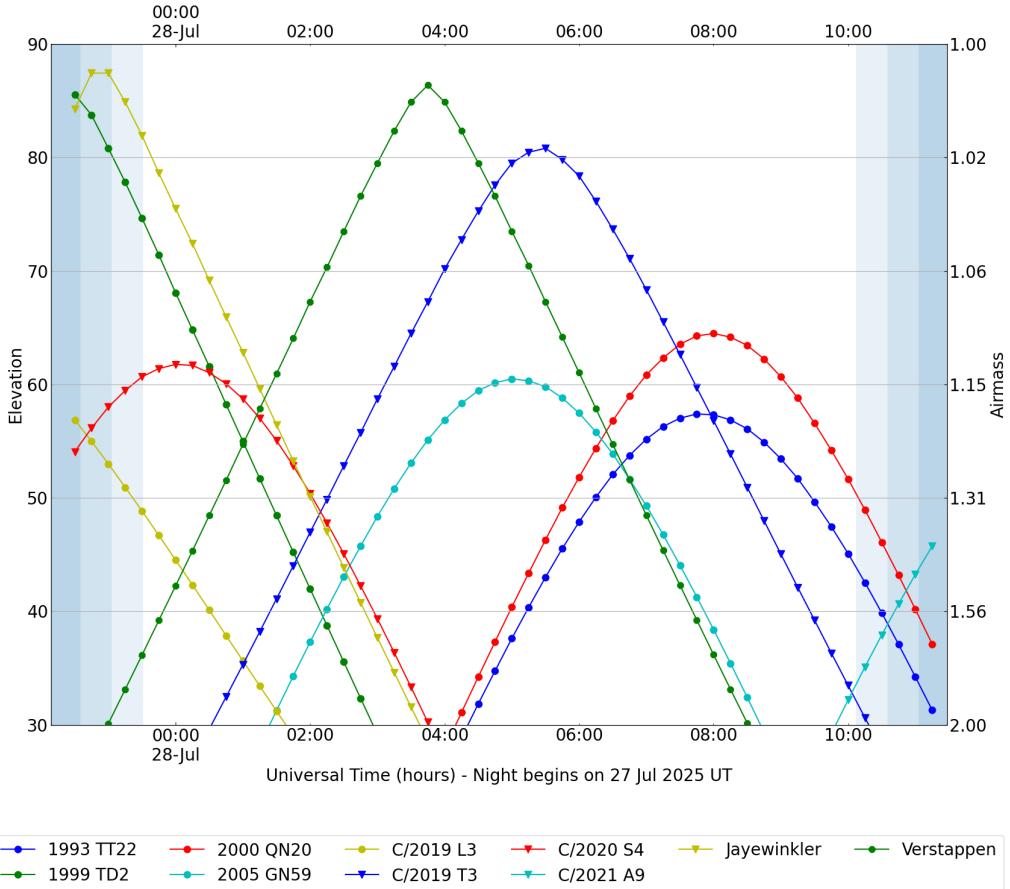
Sunrise-Sunset: 22:09 - 11:29 UT

Twilight-Twilight: 23:31 - 10:07 UT

Night lasts: 13.3 / 10.6 hours.

Lunar Illumination: 0.06

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:00	3:40:29	20.05	0.101	1.25	80.4
C/2019 L3	12:04:22	-53:27:04	18.86	0.194	3.00	68.5
1999 TD2	14:01:32	-24:41:11	19.94	0.669	4.25	64.3
Jayewinkler	14:31:47	-32:04:22	17.40	0.596	5.00	73.6
C/2020 S4	15:42:48	-0:50:57	20.88	0.110	5.25	80.2
Verstappen	19:25:37	-33:26:47	17.22	0.521	9.25	133.9
2005 GN59	20:44:41	0:10:48	18.03	1.034	7.25	152.8
C/2019 T3	21:05:35	-38:34:45	21.38	0.264	9.50	147.9
1993 TT22	23:31:45	3:16:20	18.73	0.030	6.75	157.5
2000 QN20	23:40:09	-3:51:27	18.75	0.152	7.00	159.6



2025-Jul-27

MPC code: 809

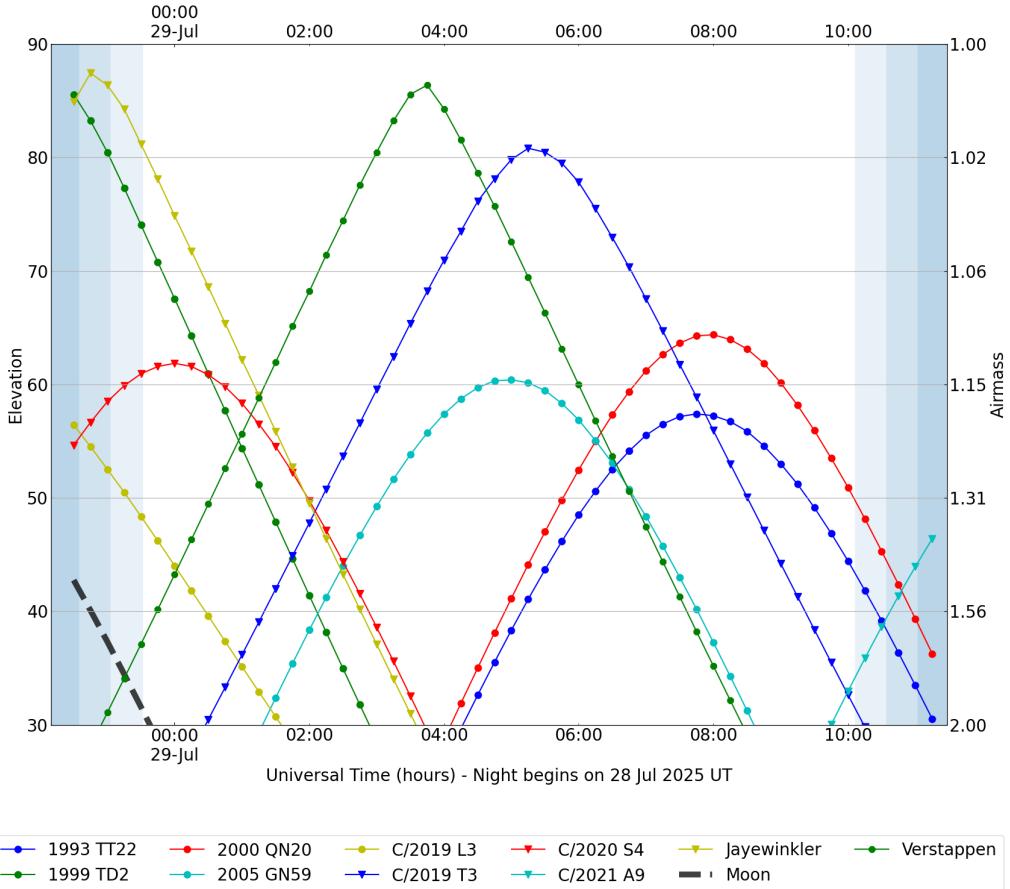
Sunrise-Sunset: 22:09 - 11:28 UT

Twilight-Twilight: 23:31 - 10:07 UT

Night lasts: 13.3 / 10.6 hours.

Lunar Illumination: 0.12

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:04	3:38:27	20.05	0.101	1.25	92.0
C/2019 L3	12:04:50	-53:24:58	18.86	0.195	3.00	60.3
1999 TD2	14:02:34	-24:49:15	19.95	0.681	4.25	52.0
Jayewinkler	14:32:53	-32:00:57	17.41	0.607	5.00	61.4
C/2020 S4	15:42:47	-0:53:34	20.89	0.110	5.25	68.5
Verstappen	19:24:41	-33:25:13	17.24	0.511	9.50	121.2
2005 GN59	20:43:04	0:13:40	17.99	1.060	7.00	143.0
C/2019 T3	21:05:07	-38:37:54	21.38	0.264	9.50	136.8
1993 TT22	23:31:48	3:15:45	18.70	0.033	6.75	169.4
2000 QN20	23:40:12	-3:47:54	18.73	0.144	7.00	172.1



2025-Jul-28

MPC code: 809

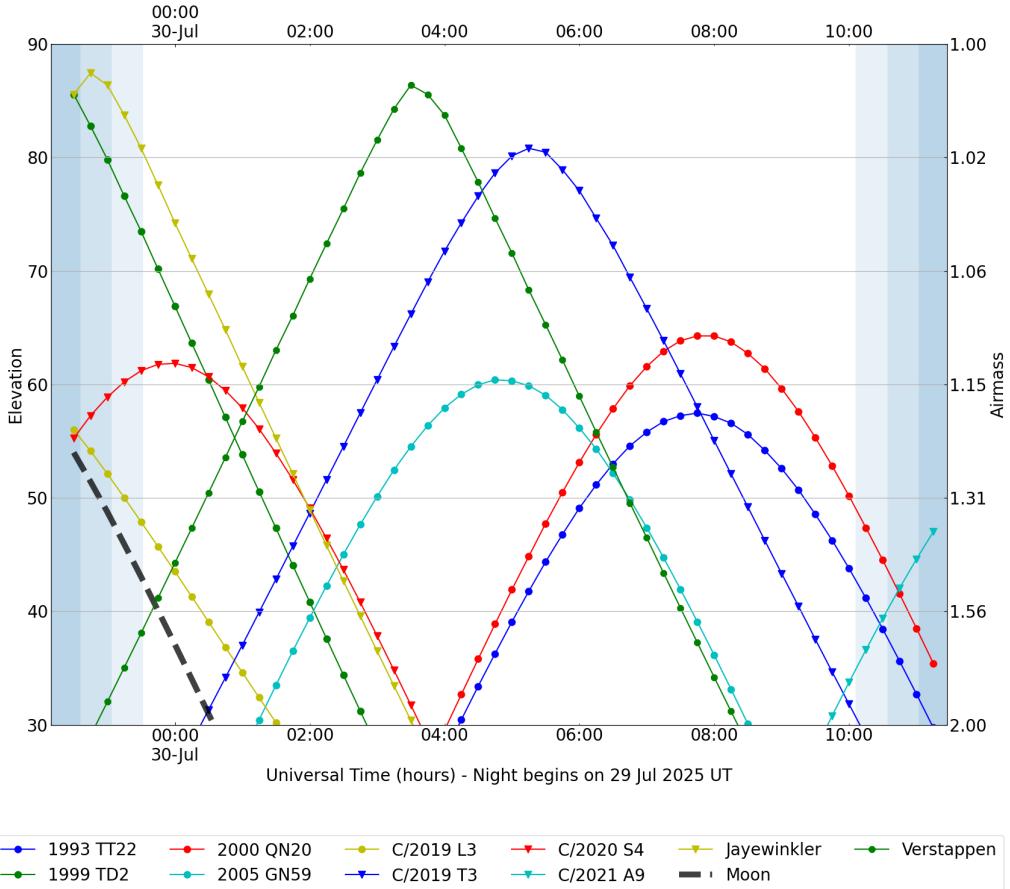
Sunrise-Sunset: 22:10 - 11:28 UT

Twilight-Twilight: 23:32 - 10:06 UT

Night lasts: 13.3 / 10.6 hours.

Lunar Illumination: 0.20

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:09	3:36:22	20.05	0.100	1.50	103.2
C/2019 L3	12:05:18	-53:22:55	18.87	0.196	3.00	53.3
1999 TD2	14:03:38	-24:57:20	19.96	0.692	4.25	40.2
Jayewinkler	14:34:00	-31:57:40	17.43	0.617	5.00	49.5
C/2020 S4	15:42:46	-0:56:13	20.89	0.111	5.00	57.4
Verstappen	19:23:45	-33:23:27	17.26	0.501	9.25	108.7
2005 GN59	20:41:25	0:16:11	17.95	1.086	7.00	132.1
C/2019 T3	21:04:39	-38:41:00	21.39	0.263	9.50	125.3
1993 TT22	23:31:49	3:14:54	18.68	0.044	6.75	173.9
2000 QN20	23:40:13	-3:44:30	18.70	0.139	7.00	174.9



2025-Jul-29

MPC code: 809

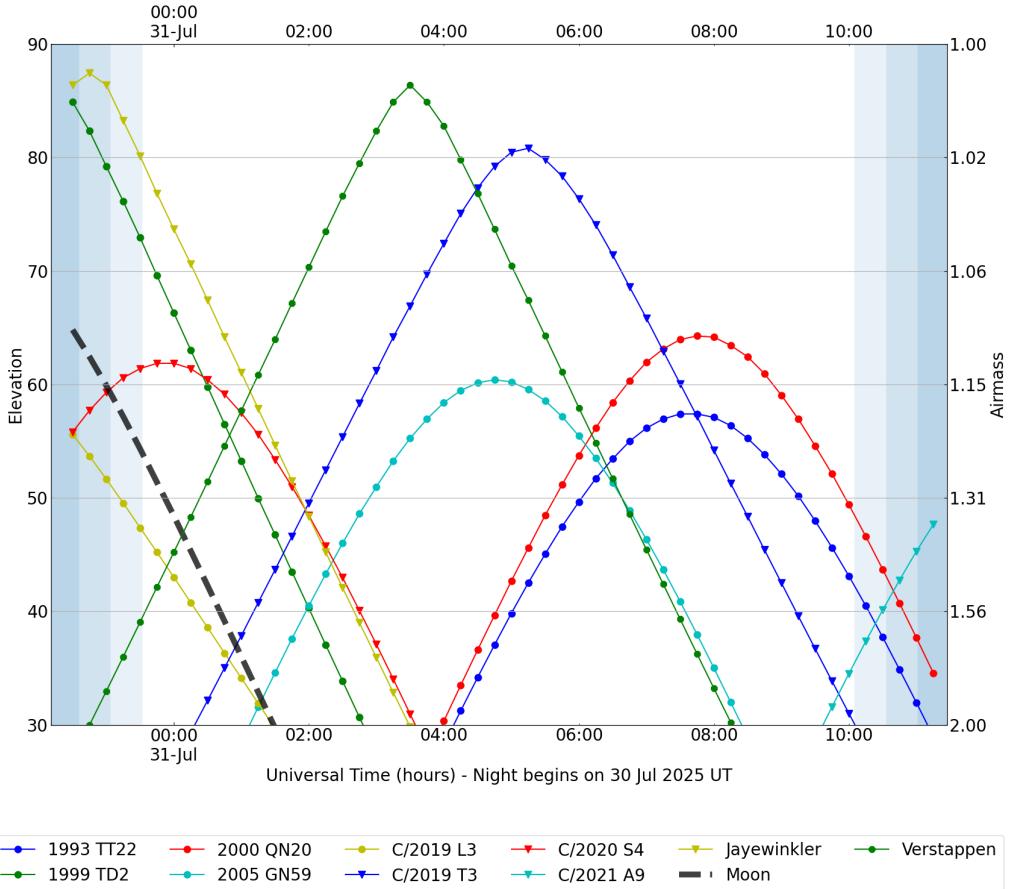
Sunrise-Sunset: 22:10 - 11:27 UT

Twilight-Twilight: 23:32 - 10:06 UT

Night lasts: 13.3 / 10.6 hours.

Lunar Illumination: 0.28

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:13	3:34:16	20.05	0.100	1.50	114.2
C/2019 L3	12:05:46	-53:20:56	18.88	0.197	3.00	47.9
1999 TD2	14:04:43	-25:05:28	19.98	0.703	4.25	28.6
Jayewinkler	14:35:08	-31:54:30	17.44	0.627	5.00	38.1
C/2020 S4	15:42:46	-0:58:53	20.90	0.112	5.00	46.8
Verstappen	19:22:52	-33:21:29	17.29	0.490	9.25	96.5
2005 GN59	20:39:44	0:18:22	17.91	1.112	7.25	120.8
C/2019 T3	21:04:11	-38:44:04	21.39	0.263	9.50	113.8
1993 TT22	23:31:49	3:13:48	18.66	0.061	6.75	163.8
2000 QN20	23:40:12	-3:41:16	18.68	0.137	7.00	163.1



2025-Jul-30

MPC code: 809

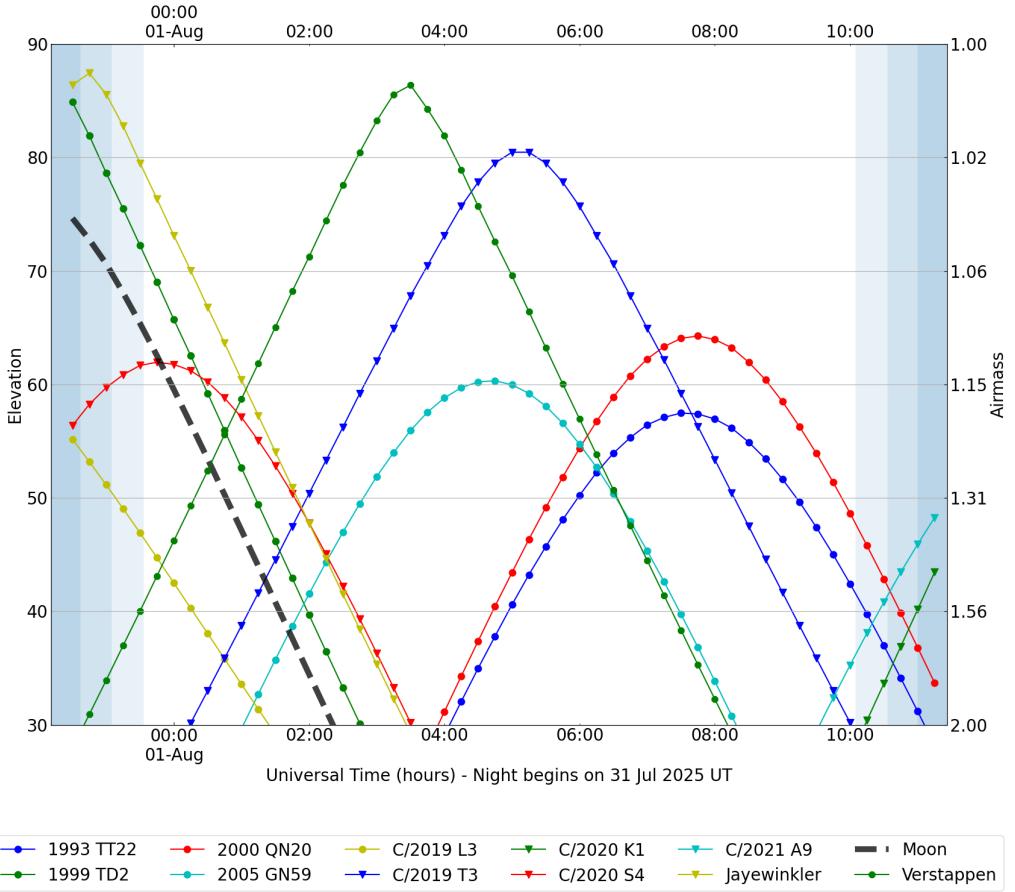
Sunrise-Sunset: 22:11 - 11:27 UT

Twilight-Twilight: 23:32 - 10:05 UT

Night lasts: 13.3 / 10.5 hours.

Lunar Illumination: 0.37

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:17	3:32:07	20.05	0.100	1.50	124.8
C/2019 L3	12:06:15	-53:19:01	18.88	0.198	2.75	44.4
1999 TD2	14:05:49	-25:13:37	19.99	0.714	4.25	17.8
Jayewinkler	14:36:18	-31:51:28	17.45	0.637	4.75	27.1
C/2020 S4	15:42:46	-1:01:34	20.91	0.113	5.00	37.0
Verstappen	19:22:00	-33:19:20	17.31	0.478	9.25	84.3
2005 GN59	20:38:00	0:20:12	17.87	1.136	7.00	109.3
C/2019 T3	21:03:43	-38:47:06	21.39	0.262	9.50	102.3
1993 TT22	23:31:46	3:12:26	18.64	0.081	6.75	152.1
2000 QN20	23:40:09	-3:38:13	18.66	0.139	7.25	151.1



2025-Jul-31

MPC code: 809

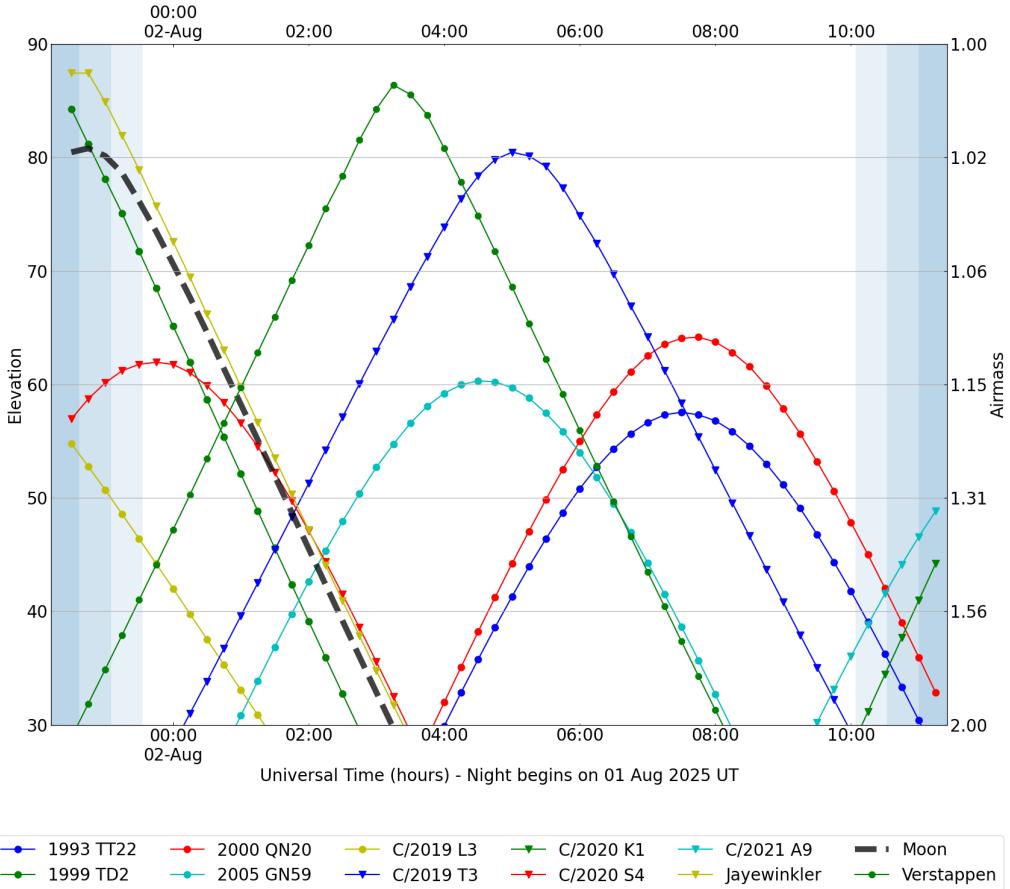
Sunrise-Sunset: 22:11 - 11:26 UT

Twilight-Twilight: 23:33 - 10:05 UT

Night lasts: 13.2 / 10.5 hours.

Lunar Illumination: 0.46

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:21	3:29:57	20.05	0.099	1.50	134.8
C/2020 K1	6:29:35	-17:04:17	18.40	0.243	1.00	106.5
C/2019 L3	12:06:44	-53:17:09	18.89	0.199	2.75	43.4
1999 TD2	14:06:56	-25:21:49	20.01	0.725	4.25	9.0
Jayewinkler	14:37:29	-31:48:32	17.46	0.647	4.75	17.2
C/2020 S4	15:42:46	-1:04:17	20.92	0.114	5.00	28.9
Verstappen	19:21:09	-33:17:00	17.33	0.466	9.25	72.4
2005 GN59	20:36:13	0:21:41	17.83	1.160	7.00	98.0
C/2019 T3	21:03:15	-38:50:05	21.39	0.262	9.75	90.9
1993 TT22	23:31:42	3:10:49	18.62	0.102	6.75	140.4
2000 QN20	23:40:04	-3:35:19	18.63	0.144	7.25	139.3



2025-Aug-01

MPC code: 809

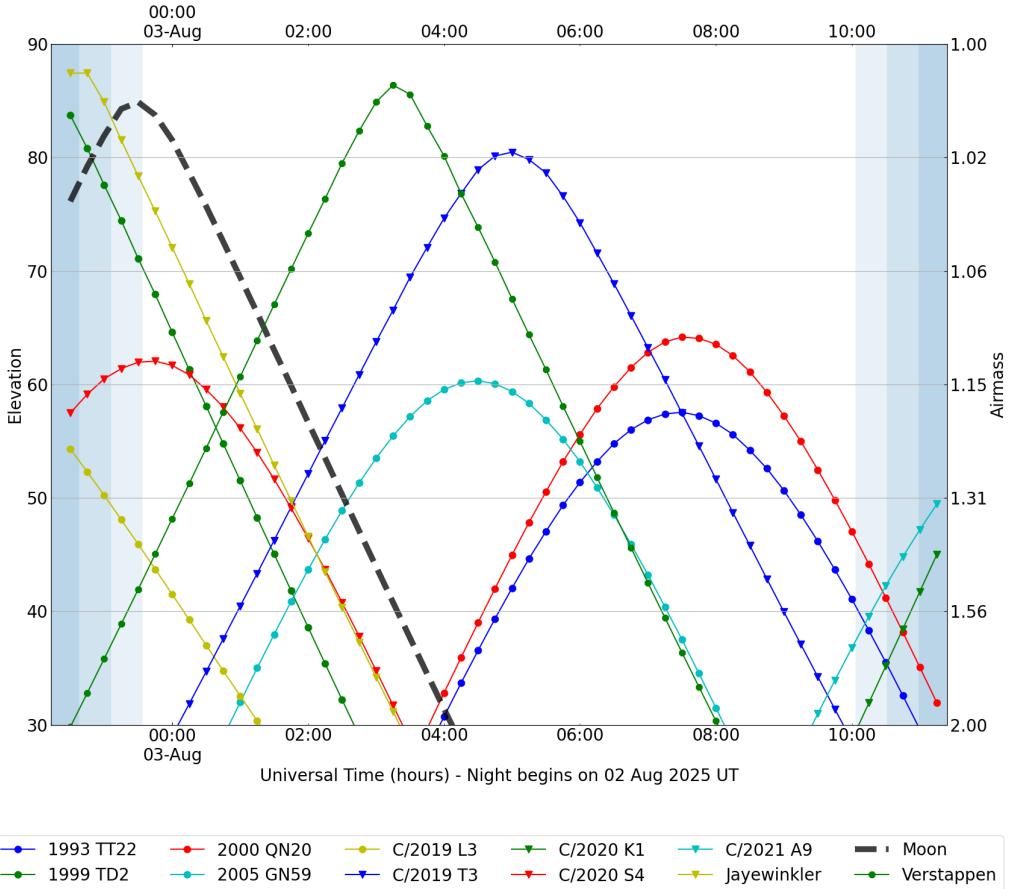
Sunrise-Sunset: 22:12 - 11:25 UT

Twilight-Twilight: 23:33 - 10:04 UT

Night lasts: 13.2 / 10.5 hours.

Lunar Illumination: 0.56

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:25	3:27:44	20.04	0.099	1.75	143.9
C/2020 K1	6:29:58	-17:04:53	18.40	0.240	1.00	114.2
C/2019 L3	12:07:13	-53:15:21	18.89	0.200	2.75	44.9
1999 TD2	14:08:05	-25:30:02	20.02	0.735	4.00	10.8
Jayewinkler	14:38:41	-31:45:43	17.48	0.657	4.75	11.4
C/2020 S4	15:42:47	-1:07:01	20.93	0.115	4.75	23.5
Verstappen	19:20:20	-33:14:28	17.36	0.454	9.25	60.5
2005 GN59	20:34:24	0:22:47	17.80	1.183	7.00	86.5
C/2019 T3	21:02:46	-38:53:01	21.40	0.261	9.50	79.5
1993 TT22	23:31:36	3:08:57	18.59	0.123	6.75	128.6
2000 QN20	23:39:56	-3:32:35	18.61	0.153	7.25	127.5



2025-Aug-02

MPC code: 809

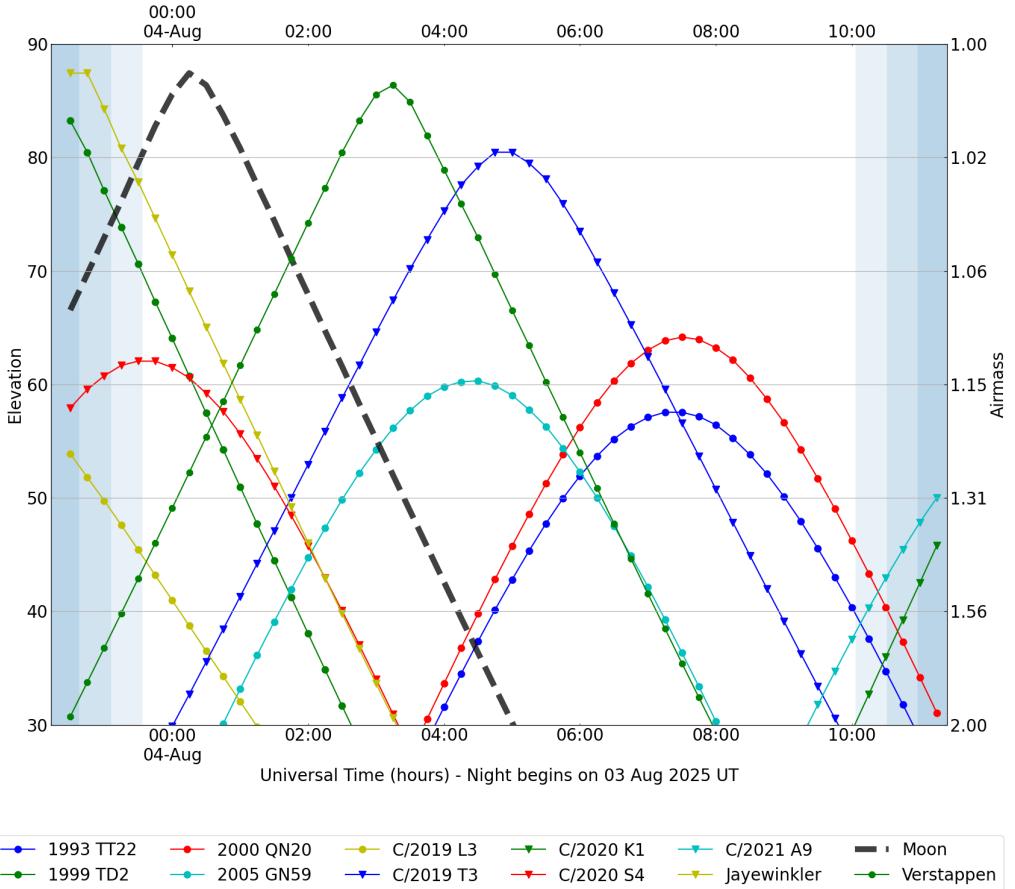
Sunrise-Sunset: 22:13 - 11:24 UT

Twilight-Twilight: 23:34 - 10:03 UT

Night lasts: 13.2 / 10.5 hours.

Lunar Illumination: 0.65

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:28	3:25:29	20.04	0.100	1.75	151.4
C/2020 K1	6:30:22	-17:05:33	18.40	0.238	1.00	121.2
C/2019 L3	12:07:43	-53:13:37	18.90	0.201	2.75	48.8
1999 TD2	14:09:14	-25:38:16	20.03	0.746	4.00	20.4
Jayewinkler	14:39:54	-31:43:02	17.49	0.667	4.75	15.1
C/2020 S4	15:42:49	-1:09:47	20.93	0.117	4.75	23.2
Verstappen	19:19:32	-33:11:46	17.38	0.441	9.25	48.5
2005 GN59	20:32:33	0:23:31	17.77	1.205	7.00	75.0
C/2019 T3	21:02:18	-38:55:55	21.40	0.260	9.50	68.0
1993 TT22	23:31:29	3:06:49	18.57	0.144	6.75	116.8
2000 QN20	23:39:47	-3:30:01	18.58	0.165	7.25	115.5



2025-Aug-03

MPC code: 809

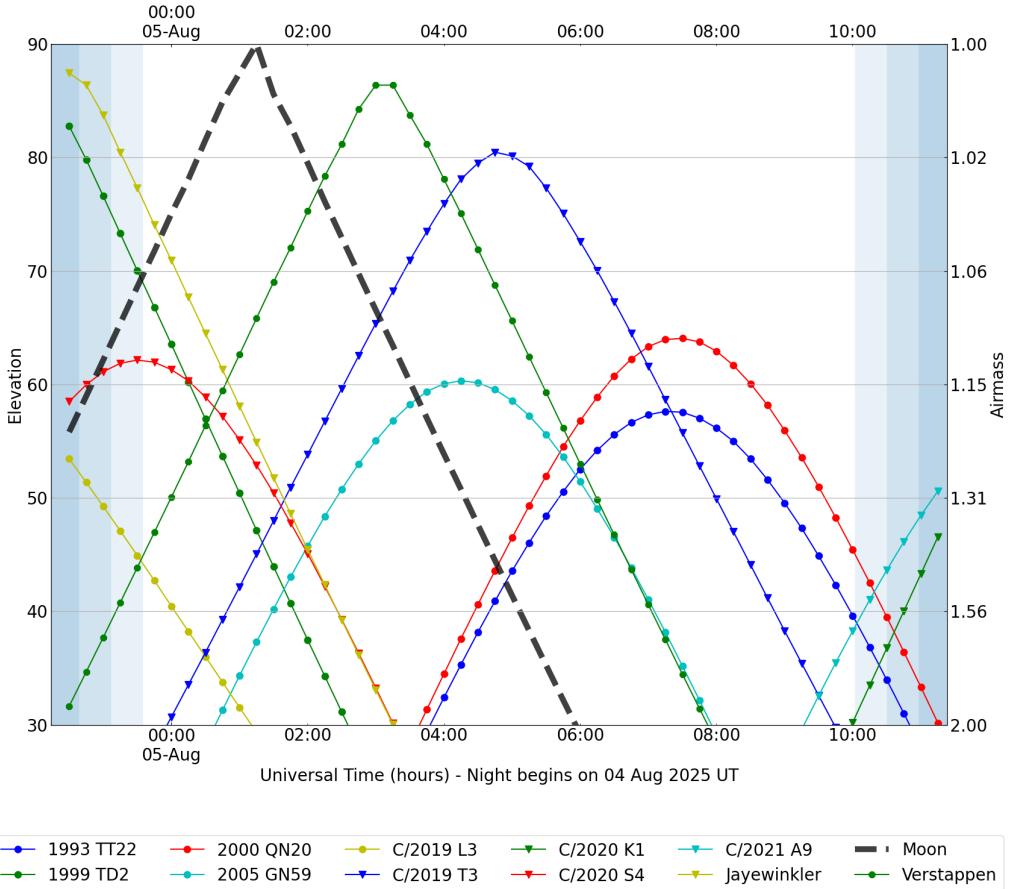
Sunrise-Sunset: 22:13 - 11:24 UT

Twilight-Twilight: 23:34 - 10:03 UT

Night lasts: 13.2 / 10.5 hours.

Lunar Illumination: 0.74

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:30	3:23:12	20.04	0.100	1.75	155.4
C/2020 K1	6:30:45	-17:06:16	18.40	0.235	1.00	127.3
C/2019 L3	12:08:13	-53:11:56	18.90	0.202	2.50	54.5
1999 TD2	14:10:25	-25:46:32	20.05	0.756	4.00	31.6
Jayewinkler	14:41:09	-31:40:26	17.50	0.677	4.75	24.4
C/2020 S4	15:42:51	-1:12:34	20.94	0.118	4.75	28.3
Verstappen	19:18:47	-33:08:54	17.41	0.428	9.25	36.5
2005 GN59	20:30:41	0:23:53	17.75	1.226	7.25	63.5
C/2019 T3	21:01:50	-38:58:47	21.40	0.259	9.50	56.7
1993 TT22	23:31:19	3:04:25	18.55	0.166	6.75	104.7
2000 QN20	23:39:36	-3:27:36	18.56	0.178	7.50	103.5



2025-Aug-04

MPC code: 809

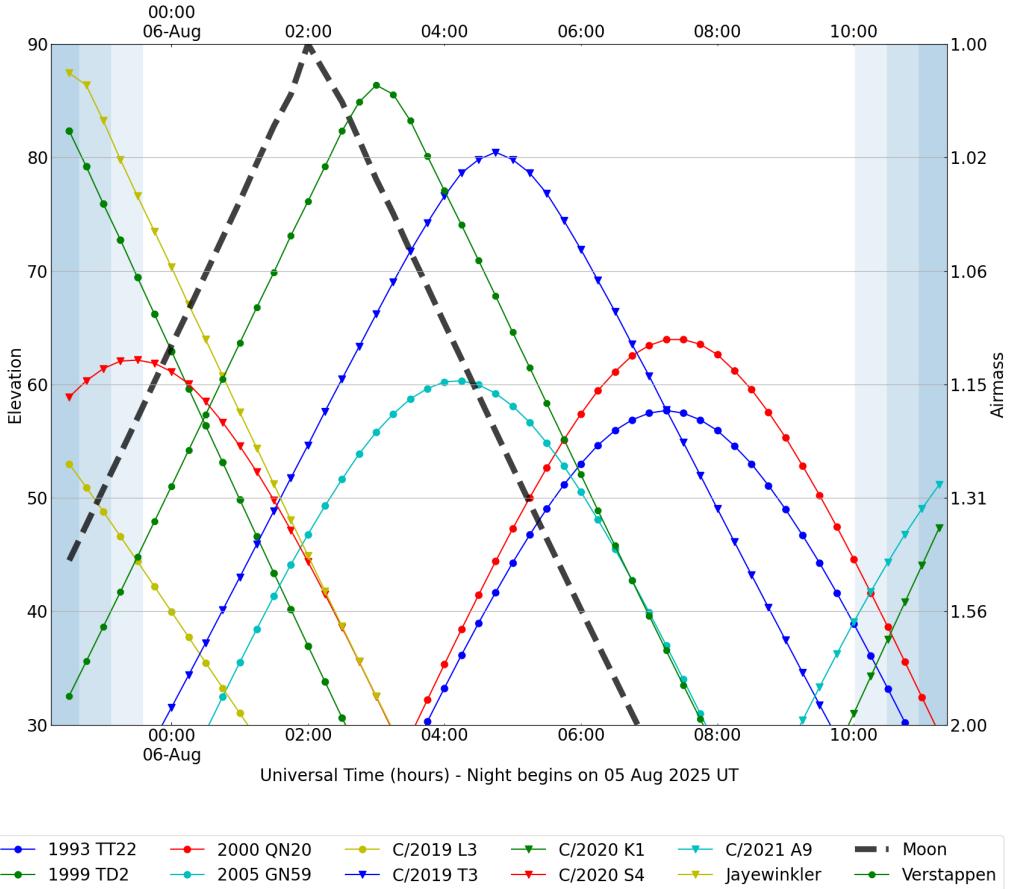
Sunrise-Sunset: 22:14 - 11:23 UT

Twilight-Twilight: 23:35 - 10:02 UT

Night lasts: 13.2 / 10.5 hours.

Lunar Illumination: 0.82

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:33	3:20:53	20.04	0.100	1.75	154.3
C/2020 K1	6:31:08	-17:07:03	18.41	0.233	1.25	132.1
C/2019 L3	12:08:43	-53:10:19	18.91	0.203	2.50	61.7
1999 TD2	14:11:38	-25:54:50	20.06	0.766	4.00	43.2
Jayewinkler	14:42:25	-31:37:58	17.51	0.687	4.75	35.5
C/2020 S4	15:42:53	-1:15:22	20.95	0.120	4.75	36.7
Verstappen	19:18:03	-33:05:51	17.43	0.414	9.25	24.4
2005 GN59	20:28:46	0:23:52	17.72	1.245	7.00	52.2
C/2019 T3	21:01:22	-39:01:36	21.41	0.259	9.50	45.2
1993 TT22	23:31:08	3:01:46	18.53	0.187	6.75	92.3
2000 QN20	23:39:22	-3:25:22	18.53	0.193	7.50	91.2



2025-Aug-05

MPC code: 809

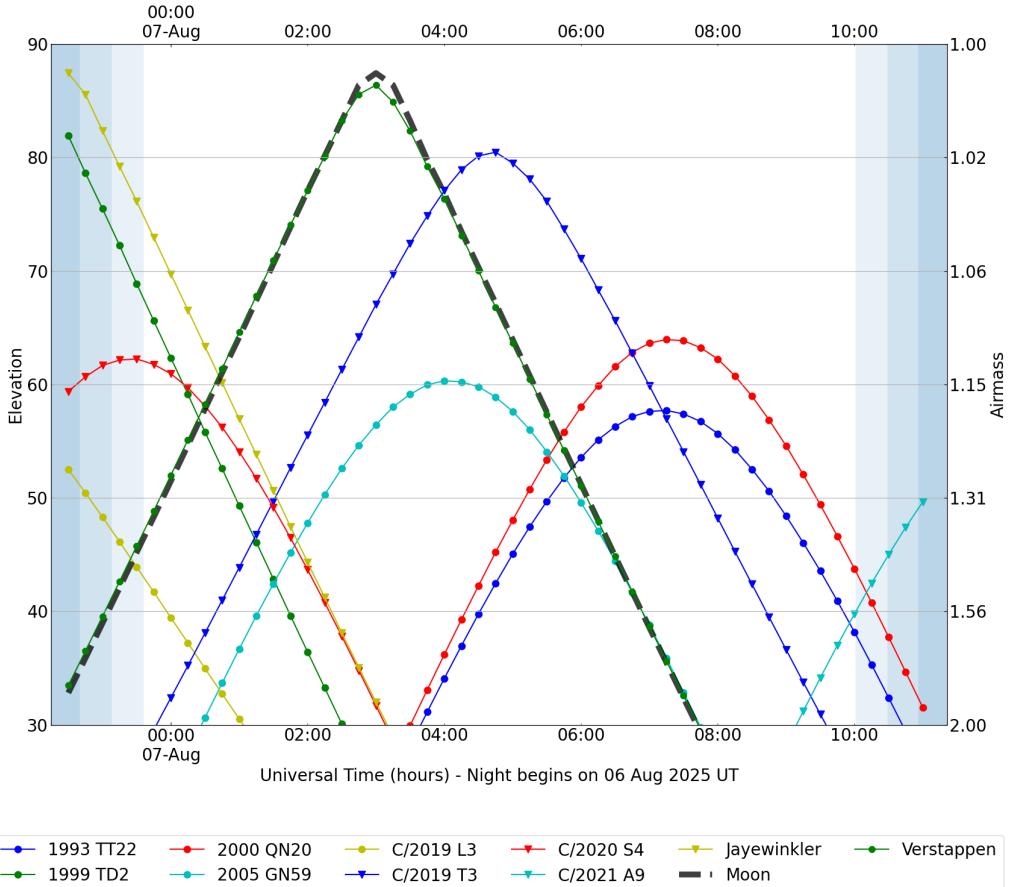
Sunrise-Sunset: 22:14 - 11:22 UT

Twilight-Twilight: 23:35 - 10:01 UT

Night lasts: 13.1 / 10.4 hours.

Lunar Illumination: 0.89

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:35	3:18:32	20.04	0.101	2.00	148.2
C/2020 K1	6:31:31	-17:07:53	18.41	0.230	1.25	134.7
C/2019 L3	12:09:13	-53:08:46	18.91	0.204	2.50	69.9
1999 TD2	14:12:51	-26:03:09	20.07	0.776	4.00	55.2
Jayewinkler	14:43:42	-31:35:35	17.52	0.696	4.50	47.3
C/2020 S4	15:42:56	-1:18:11	20.96	0.122	4.50	46.8
Verstappen	19:17:21	-33:02:39	17.45	0.401	9.25	12.5
2005 GN59	20:26:49	0:23:28	17.70	1.264	7.00	41.0
C/2019 T3	21:00:53	-39:04:22	21.41	0.258	9.50	34.2
1993 TT22	23:30:55	2:58:51	18.50	0.208	7.00	79.8
2000 QN20	23:39:07	-3:23:18	18.51	0.209	7.25	78.5



2025-Aug-06

MPC code: 809

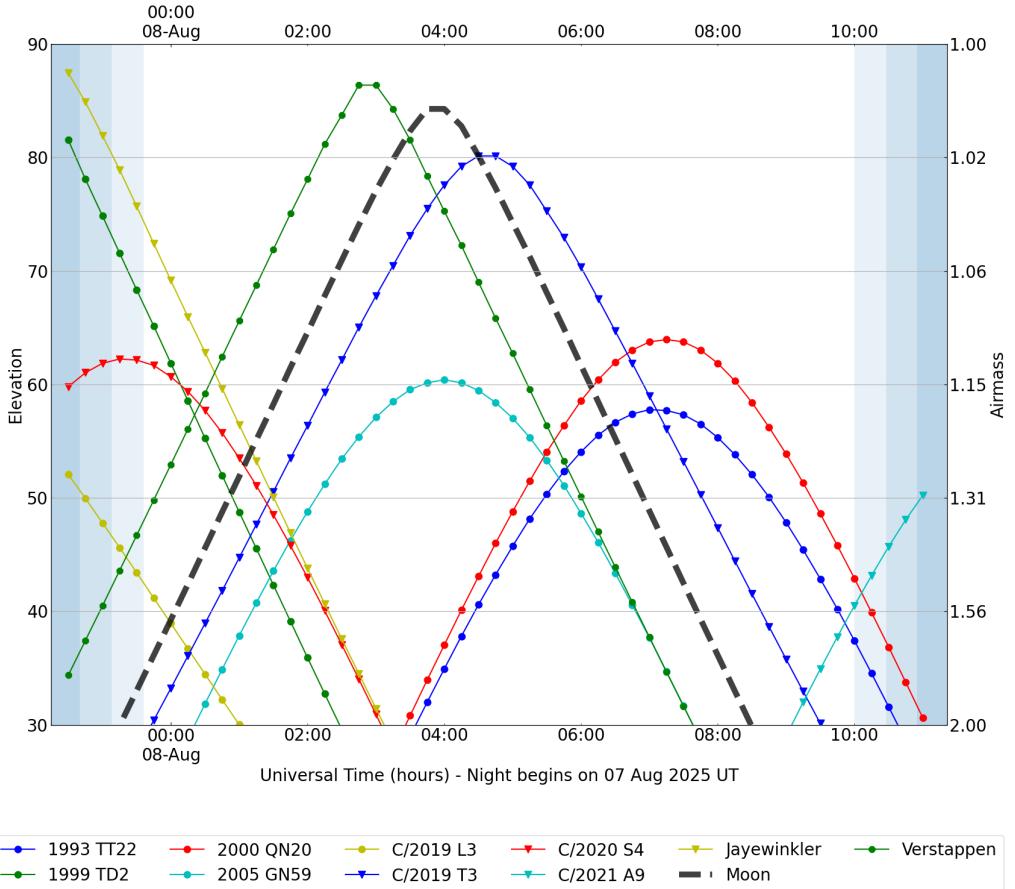
Sunrise-Sunset: 22:15 - 11:21 UT

Twilight-Twilight: 23:36 - 10:01 UT

Night lasts: 13.1 / 10.4 hours.

Lunar Illumination: 0.95

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:37	3:16:09	20.04	0.101	1.75	139.1
C/2019 L3	12:09:44	-53:07:16	18.92	0.205	2.50	78.9
1999 TD2	14:14:05	-26:11:27	20.08	0.785	4.00	67.6
Jayewinkler	14:45:00	-31:33:20	17.53	0.705	4.50	59.6
C/2020 S4	15:42:59	-1:21:01	20.97	0.124	4.50	58.1
Verstappen	19:16:42	-32:59:19	17.48	0.388	9.00	6.5
2005 GN59	20:24:51	0:22:40	17.68	1.281	7.00	31.0
C/2019 T3	21:00:25	-39:07:04	21.41	0.257	9.50	24.2
1993 TT22	23:30:40	2:55:42	18.48	0.229	6.75	66.9
2000 QN20	23:38:50	-3:21:24	18.48	0.227	7.25	65.7



2025-Aug-07

MPC code: 809

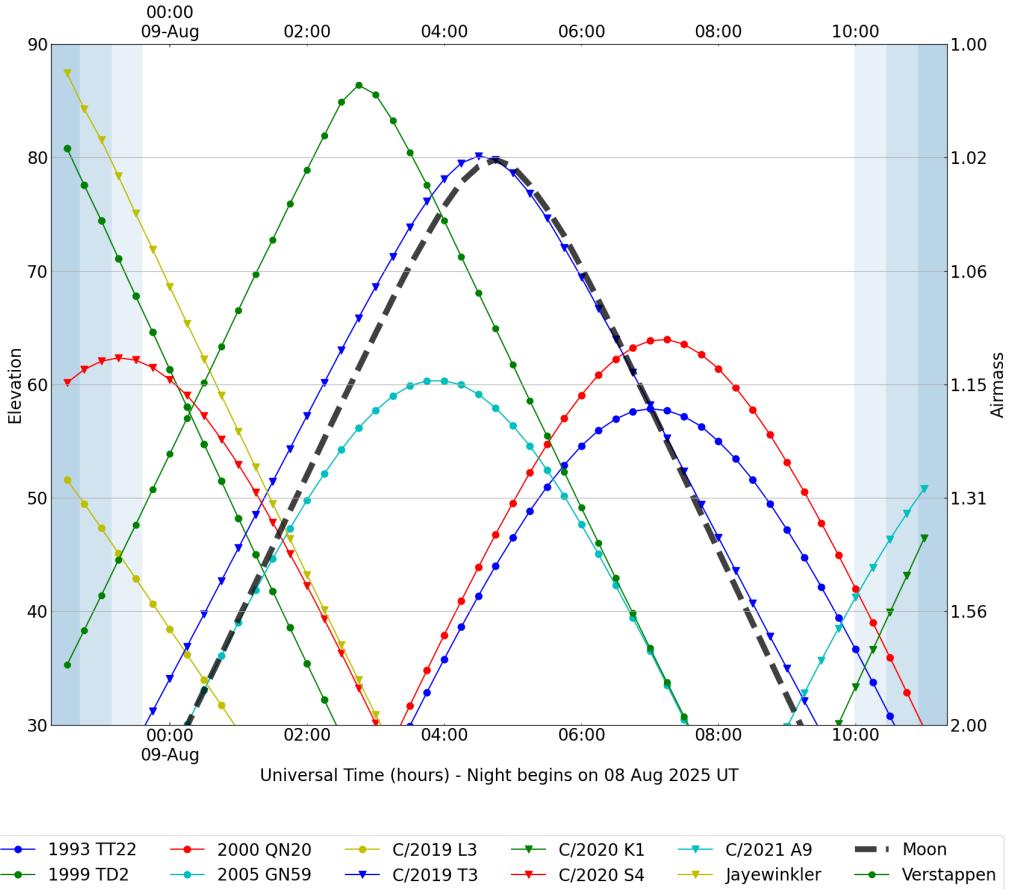
Sunrise-Sunset: 22:15 - 11:21 UT

Twilight-Twilight: 23:36 - 10:00 UT

Night lasts: 13.1 / 10.4 hours.

Lunar Illumination: 0.98

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:38	3:13:44	20.03	0.102	1.75	128.3
C/2019 L3	12:10:15	-53:05:50	18.92	0.206	2.50	88.5
1999 TD2	14:15:21	-26:19:48	20.10	0.794	3.75	80.4
Jayewinkler	14:46:18	-31:31:10	17.55	0.715	4.50	72.3
C/2020 S4	15:43:03	-1:23:53	20.98	0.126	4.50	70.0
Verstappen	19:16:04	-32:55:48	17.50	0.374	9.00	16.6
2005 GN59	20:22:52	0:21:29	17.66	1.298	7.00	23.8
C/2019 T3	20:59:57	-39:09:45	21.41	0.255	9.75	18.2
1993 TT22	23:30:24	2:52:16	18.46	0.250	6.75	53.7
2000 QN20	23:38:30	-3:19:39	18.46	0.244	7.50	52.4



2025-Aug-08

MPC code: 809

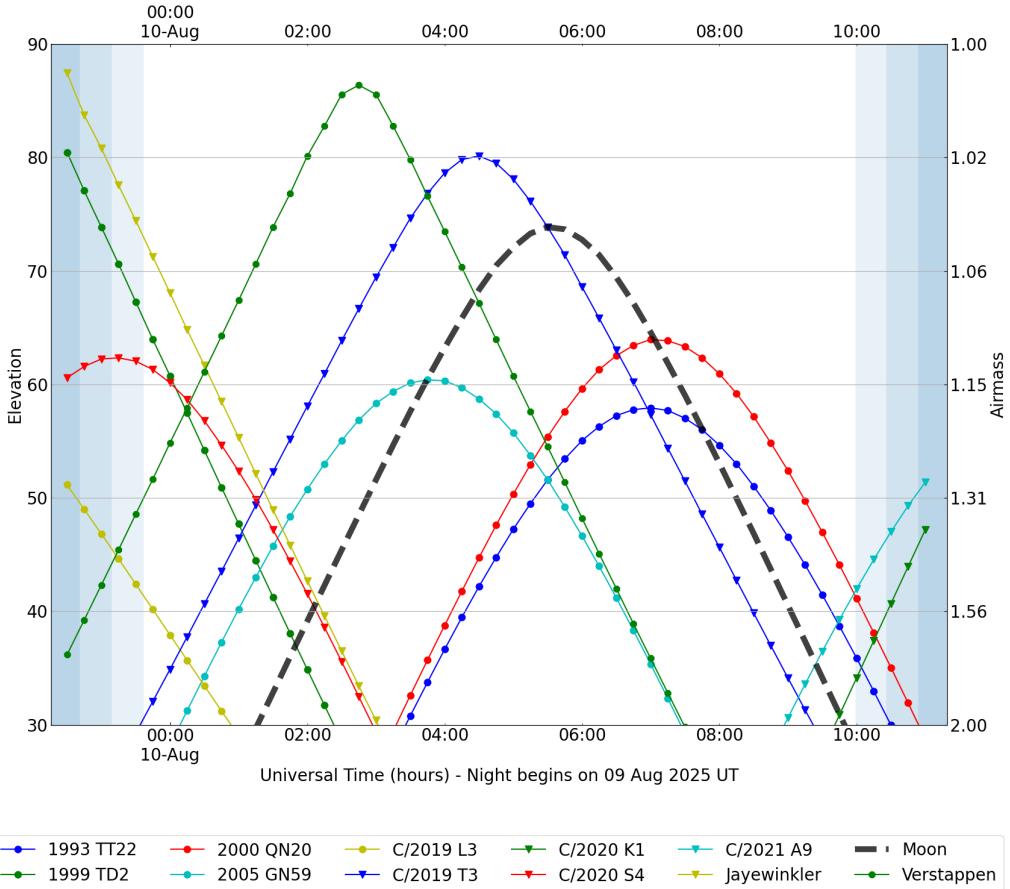
Sunrise-Sunset: 22:16 - 11:20 UT

Twilight-Twilight: 23:36 - 09:59 UT

Night lasts: 13.1 / 10.4 hours.

Lunar Illumination: 1.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:39	3:11:17	20.03	0.103	1.75	116.5
C/2020 K1	6:32:37	-17:10:43	18.41	0.223	1.25	126.6
C/2019 L3	12:10:47	-53:04:27	18.93	0.207	2.25	98.4
1999 TD2	14:16:38	-26:28:10	20.11	0.803	3.75	93.5
Jayewinkler	14:47:38	-31:29:06	17.56	0.724	4.50	85.4
C/2020 S4	15:43:07	-1:26:45	20.98	0.128	4.50	82.4
Verstappen	19:15:28	-32:52:08	17.52	0.360	9.00	29.7
2005 GN59	20:20:50	0:19:54	17.65	1.312	7.25	23.1
C/2019 T3	20:59:29	-39:12:23	21.42	0.254	9.50	20.5
1993 TT22	23:30:06	2:48:35	18.43	0.271	6.75	40.1
2000 QN20	23:38:09	-3:18:04	18.43	0.263	7.25	38.8



2025-Aug-09

MPC code: 809

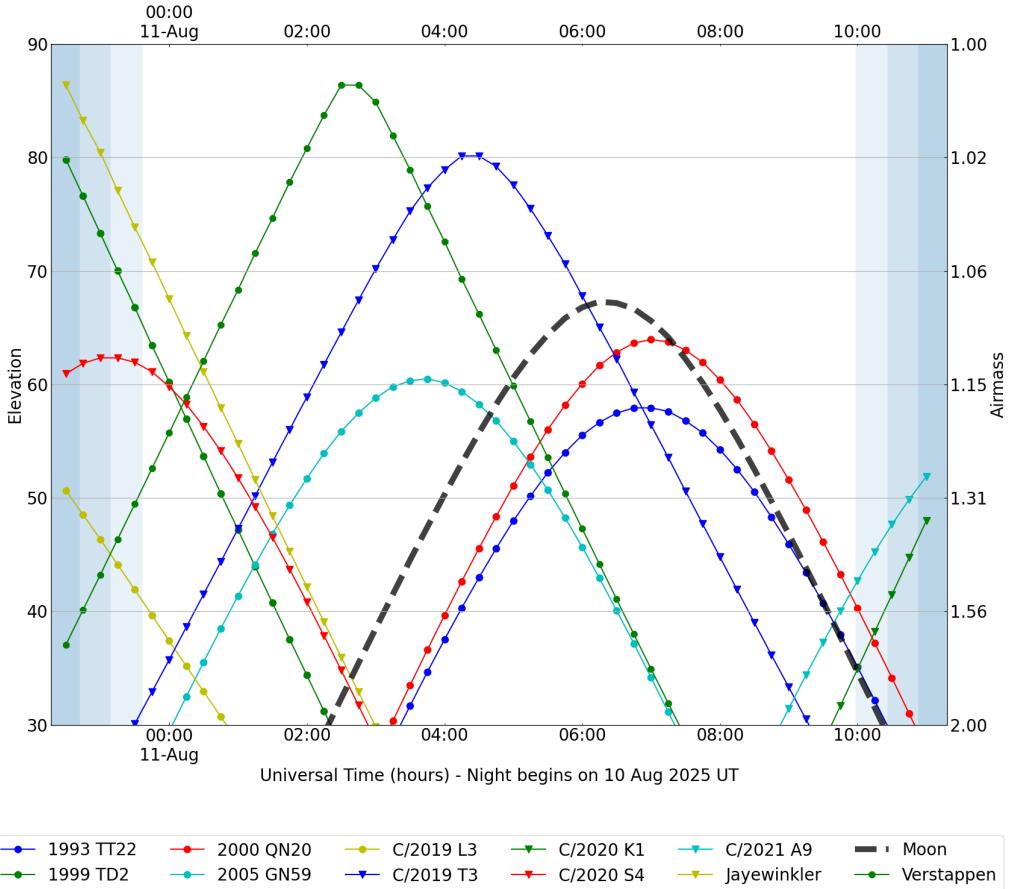
Sunrise-Sunset: 22:16 - 11:19 UT

Twilight-Twilight: 23:37 - 09:59 UT

Night lasts: 13.0 / 10.4 hours.

Lunar Illumination: 0.99

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:39	3:08:47	20.03	0.104	2.00	104.1
C/2020 K1	6:32:59	-17:11:47	18.41	0.220	1.25	119.2
C/2019 L3	12:11:18	-53:03:08	18.93	0.208	2.25	108.3
1999 TD2	14:17:56	-26:36:34	20.12	0.813	3.75	106.9
Jayewinkler	14:49:00	-31:27:07	17.57	0.733	4.50	98.7
C/2020 S4	15:43:11	-1:29:39	20.99	0.131	4.25	95.1
Verstappen	19:14:54	-32:48:20	17.55	0.347	8.75	43.4
2005 GN59	20:18:48	0:17:55	17.64	1.325	7.00	29.8
C/2019 T3	20:59:01	-39:14:58	21.42	0.253	9.50	29.7
1993 TT22	23:29:46	2:44:38	18.41	0.291	6.75	26.4
2000 QN20	23:37:46	-3:16:39	18.41	0.282	7.25	24.9



2025-Aug-10

MPC code: 809

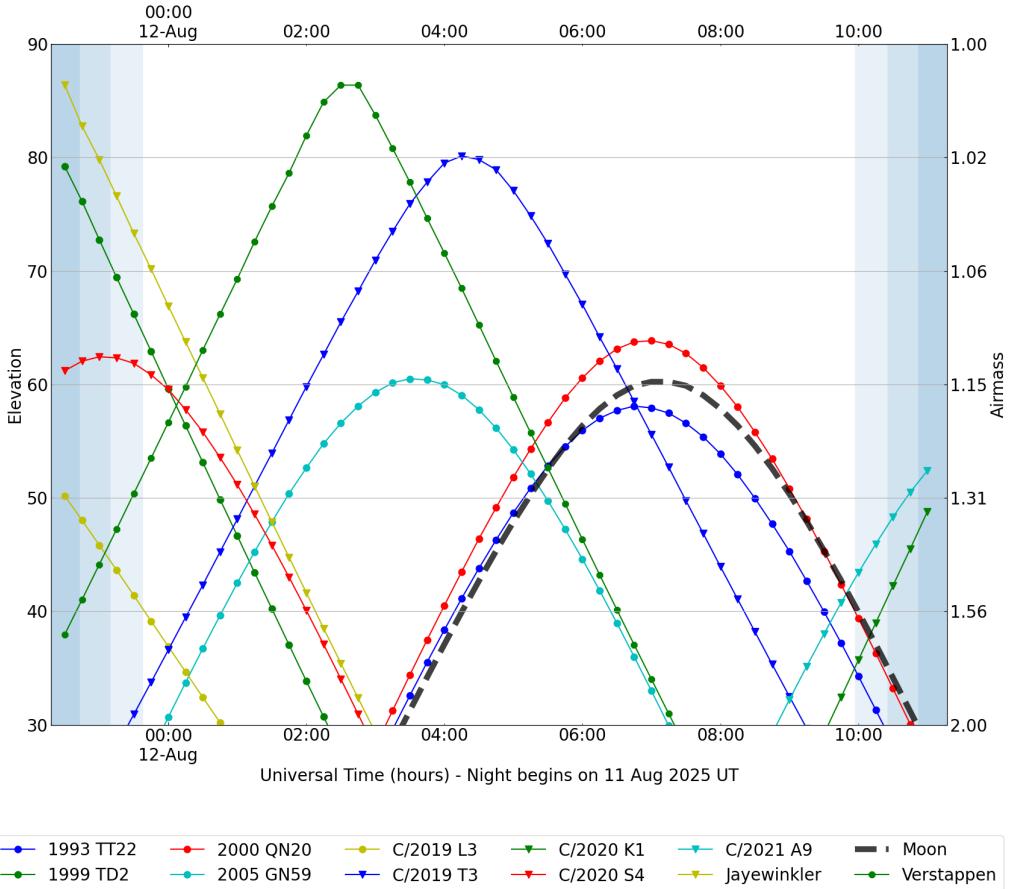
Sunrise-Sunset: 22:17 - 11:18 UT

Twilight-Twilight: 23:37 - 09:58 UT

Night lasts: 13.0 / 10.3 hours.

Lunar Illumination: 0.96

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:40	3:06:16	20.03	0.106	2.00	91.3
C/2020 K1	6:33:20	-17:12:53	18.42	0.218	1.25	110.6
C/2019 L3	12:11:50	-53:01:53	18.94	0.209	2.25	117.8
1999 TD2	14:19:16	-26:44:58	20.13	0.822	3.75	120.5
Jayewinkler	14:50:22	-31:25:14	17.58	0.742	4.25	112.3
C/2020 S4	15:43:16	-1:32:34	21.00	0.133	4.25	108.0
Verstappen	19:14:23	-32:44:24	17.57	0.333	8.75	57.4
2005 GN59	20:16:45	0:15:32	17.63	1.337	7.00	40.6
C/2019 T3	20:58:33	-39:17:31	21.43	0.252	9.75	41.7
1993 TT22	23:29:24	2:40:25	18.39	0.312	6.75	12.7
2000 QN20	23:37:20	-3:15:23	18.38	0.300	7.50	10.8



2025-Aug-11

MPC code: 809

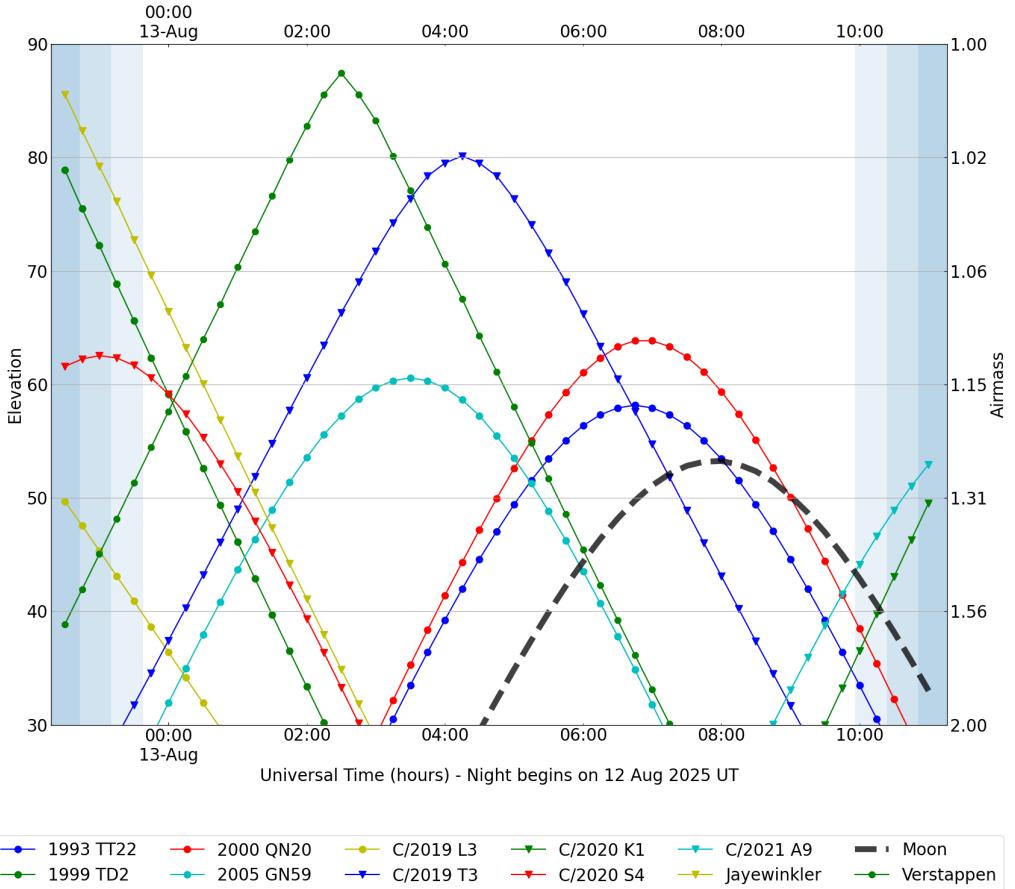
Sunrise-Sunset: 22:18 - 11:17 UT

Twilight-Twilight: 23:38 - 09:57 UT

Night lasts: 13.0 / 10.3 hours.

Lunar Illumination: 0.90

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:39	3:03:43	20.03	0.107	2.00	78.4
C/2020 K1	6:33:41	-17:14:03	18.42	0.215	1.25	101.0
C/2019 L3	12:12:22	-53:00:41	18.95	0.210	2.25	126.4
1999 TD2	14:20:36	-26:53:23	20.14	0.830	3.75	134.1
Jayewinkler	14:51:45	-31:23:27	17.59	0.751	4.25	126.0
C/2020 S4	15:43:22	-1:35:30	21.01	0.135	4.25	120.9
Verstappen	19:13:53	-32:40:20	17.60	0.320	8.75	71.7
2005 GN59	20:14:41	0:12:44	17.62	1.346	7.00	53.1
C/2019 T3	20:58:04	-39:20:01	21.43	0.250	9.50	54.8
1993 TT22	23:29:01	2:35:57	18.36	0.332	6.75	5.4
2000 QN20	23:36:53	-3:14:18	18.36	0.320	7.50	3.8



2025-Aug-12

MPC code: 809

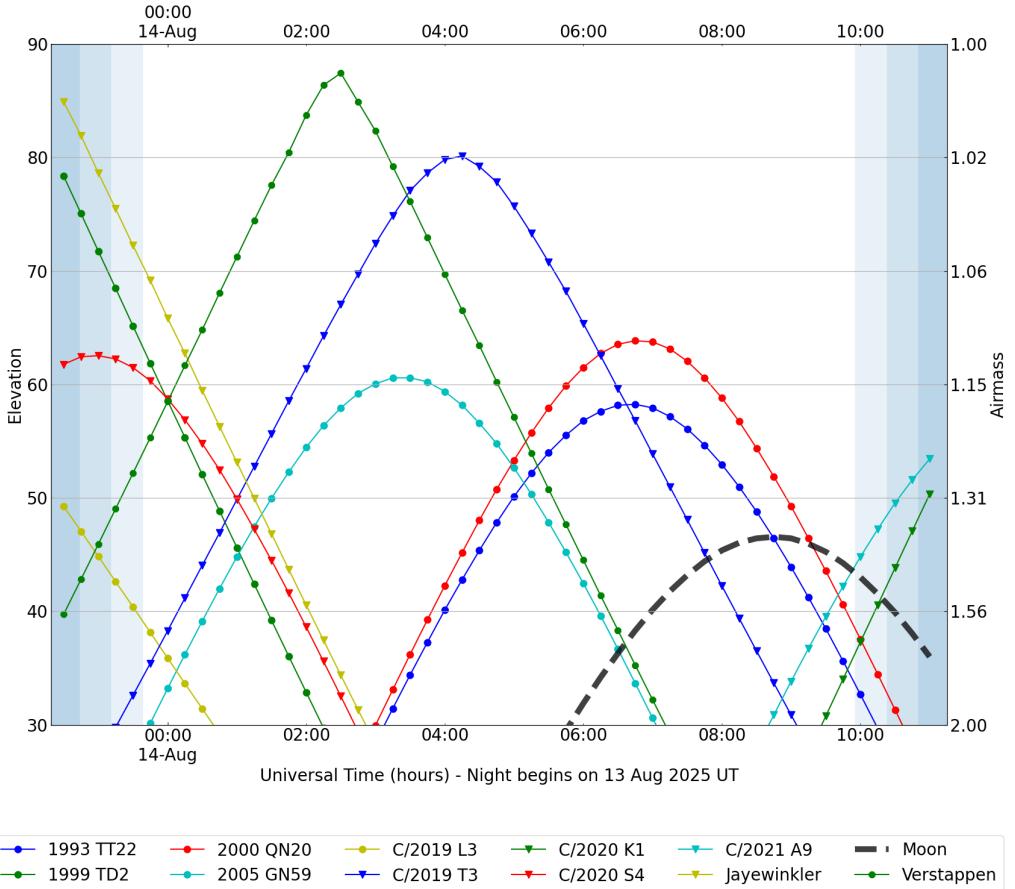
Sunrise-Sunset: 22:18 - 11:16 UT

Twilight-Twilight: 23:38 - 09:56 UT

Night lasts: 13.0 / 10.3 hours.

Lunar Illumination: 0.82

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:39	3:01:07	20.02	0.109	2.25	65.6
C/2020 K1	6:34:01	-17:15:16	18.42	0.213	1.25	91.1
C/2019 L3	12:12:55	-52:59:33	18.95	0.211	2.00	133.2
1999 TD2	14:21:57	-27:01:49	20.15	0.839	3.75	147.8
Jayewinkler	14:53:09	-31:21:45	17.60	0.760	4.25	139.7
C/2020 S4	15:43:28	-1:38:26	21.02	0.138	4.25	133.4
Verstappen	19:13:26	-32:36:08	17.62	0.307	8.75	86.0
2005 GN59	20:12:36	0:09:33	17.61	1.355	7.00	66.4
C/2019 T3	20:57:36	-39:22:28	21.43	0.249	9.50	68.3
1993 TT22	23:28:36	2:31:14	18.34	0.352	7.00	17.6
2000 QN20	23:36:24	-3:13:21	18.33	0.339	7.25	18.1



2025-Aug-13

MPC code: 809

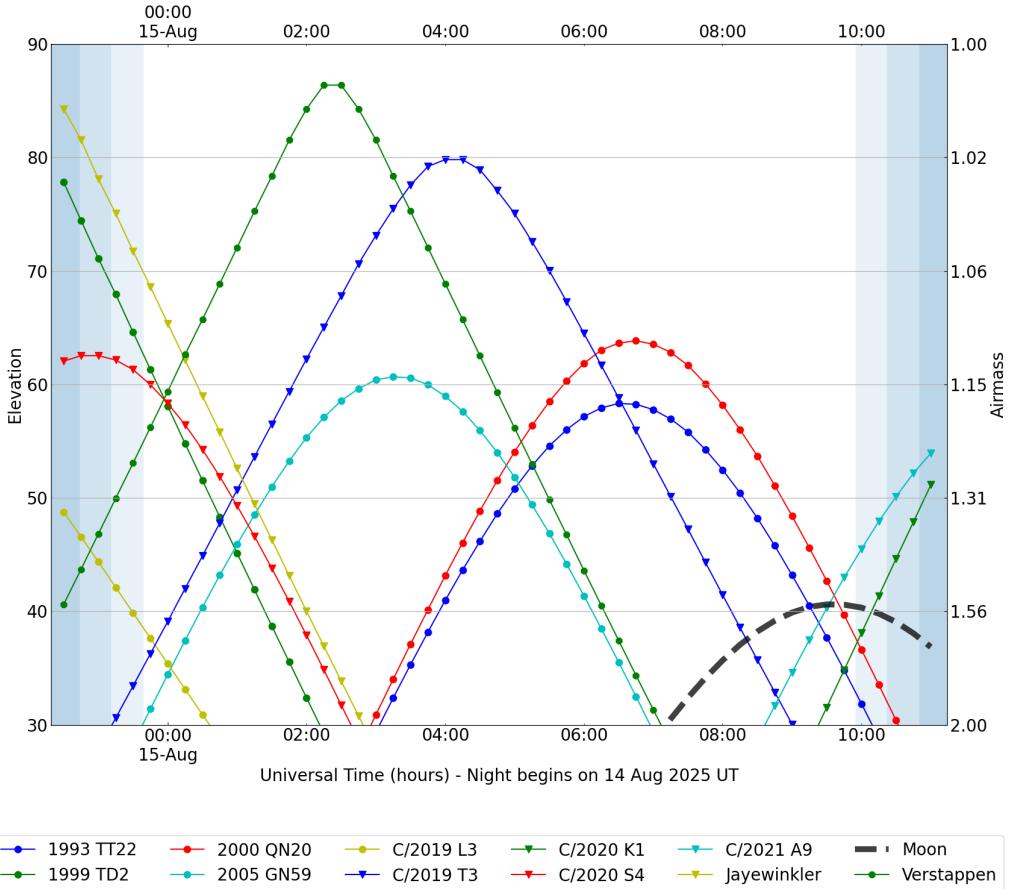
Sunrise-Sunset: 22:19 - 11:15 UT

Twilight-Twilight: 23:39 - 09:55 UT

Night lasts: 12.9 / 10.3 hours.

Lunar Illumination: 0.72

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:38	2:58:30	20.02	0.110	2.25	53.2
C/2020 K1	6:34:22	-17:16:32	18.42	0.210	1.50	81.1
C/2019 L3	12:13:27	-52:58:29	18.96	0.212	2.00	137.2
1999 TD2	14:23:20	-27:10:15	20.16	0.848	3.50	161.0
Jayewinkler	14:54:34	-31:20:08	17.61	0.769	4.25	153.1
C/2020 S4	15:43:34	-1:41:24	21.02	0.141	4.00	144.9
Verstappen	19:13:01	-32:31:49	17.65	0.295	8.50	100.3
2005 GN59	20:10:30	0:05:57	17.61	1.361	7.25	79.9
C/2019 T3	20:57:09	-39:24:52	21.43	0.247	9.50	82.0
1993 TT22	23:28:10	2:26:16	18.32	0.372	6.75	31.7
2000 QN20	23:35:53	-3:12:35	18.30	0.357	7.25	32.5



2025-Aug-14

MPC code: 809

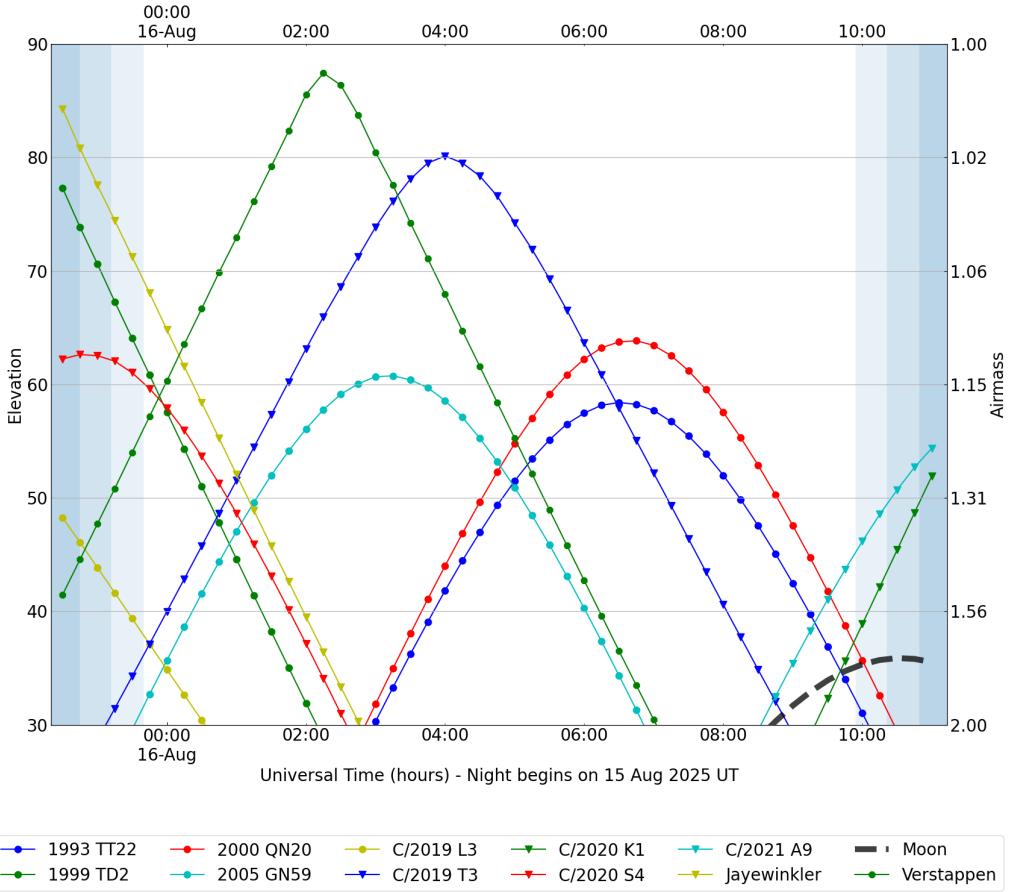
Sunrise-Sunset: 22:19 - 11:14 UT

Twilight-Twilight: 23:39 - 09:55 UT

Night lasts: 12.9 / 10.3 hours.

Lunar Illumination: 0.61

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:37	2:55:50	20.02	0.112	2.25	41.5
C/2020 K1	6:34:42	-17:17:50	18.43	0.207	1.50	71.5
C/2019 L3	12:14:00	-52:57:28	18.96	0.213	2.00	137.7
1999 TD2	14:24:43	-27:18:42	20.17	0.856	3.50	171.5
Jayewinkler	14:56:01	-31:18:36	17.62	0.778	4.25	165.5
C/2020 S4	15:43:41	-1:44:22	21.03	0.143	4.00	154.0
Verstappen	19:12:38	-32:27:23	17.67	0.283	8.50	114.6
2005 GN59	20:08:25	0:01:57	17.60	1.366	7.00	93.6
C/2019 T3	20:56:41	-39:27:13	21.44	0.246	9.75	95.7
1993 TT22	23:27:42	2:21:02	18.29	0.391	6.75	46.0
2000 QN20	23:35:20	-3:11:57	18.28	0.377	7.50	46.8



2025-Aug-15

MPC code: 809

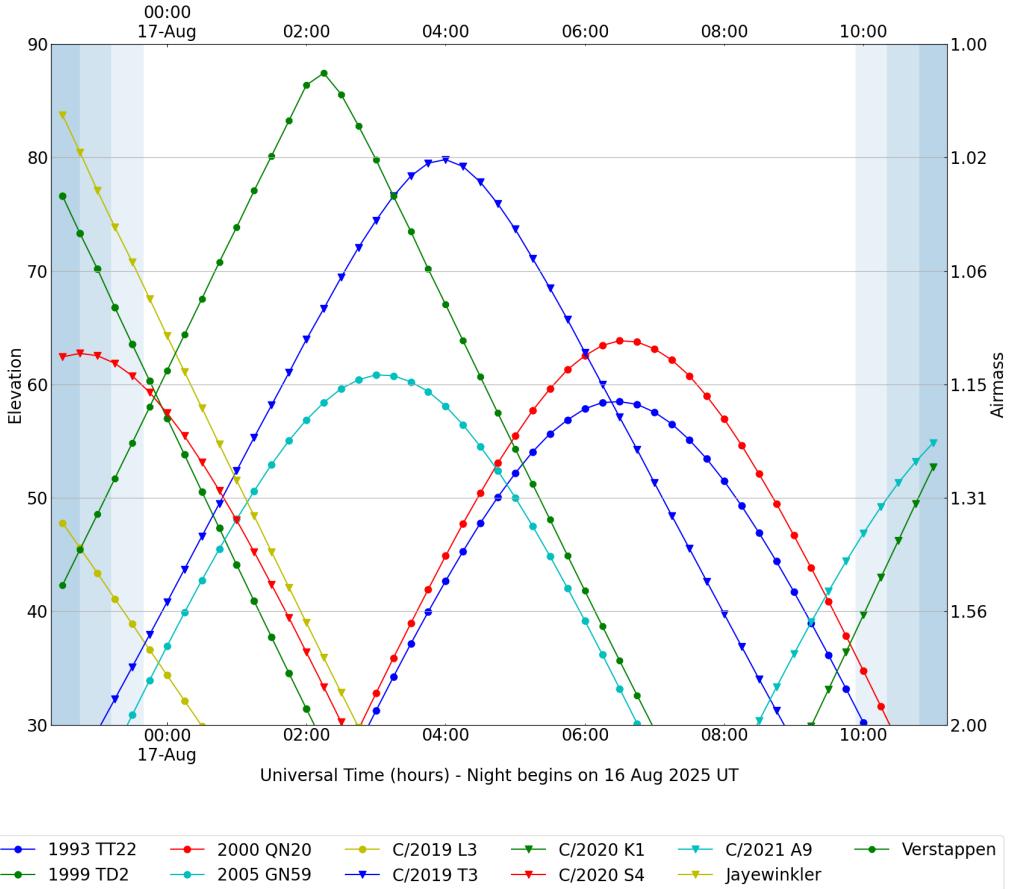
Sunrise-Sunset: 22:20 - 11:13 UT

Twilight-Twilight: 23:40 - 09:54 UT

Night lasts: 12.9 / 10.2 hours.

Lunar Illumination: 0.50

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:35	2:53:09	20.02	0.114	2.25	31.8
C/2020 K1	6:35:01	-17:19:12	18.43	0.205	1.50	62.6
C/2019 L3	12:14:33	-52:56:31	18.97	0.214	2.00	134.3
1999 TD2	14:26:08	-27:27:10	20.18	0.865	3.50	167.1
Jayewinkler	14:57:28	-31:17:08	17.63	0.787	4.25	170.7
C/2020 S4	15:43:48	-1:47:21	21.04	0.146	4.00	157.4
Verstappen	19:12:17	-32:22:50	17.70	0.273	8.50	128.8
2005 GN59	20:06:19	-0:02:27	17.60	1.368	7.00	107.0
C/2019 T3	20:56:13	-39:29:31	21.44	0.244	9.50	109.3
1993 TT22	23:27:12	2:15:33	18.27	0.410	7.00	60.3
2000 QN20	23:34:45	-3:11:30	18.25	0.395	7.25	61.2



2025-Aug-16

MPC code: 809

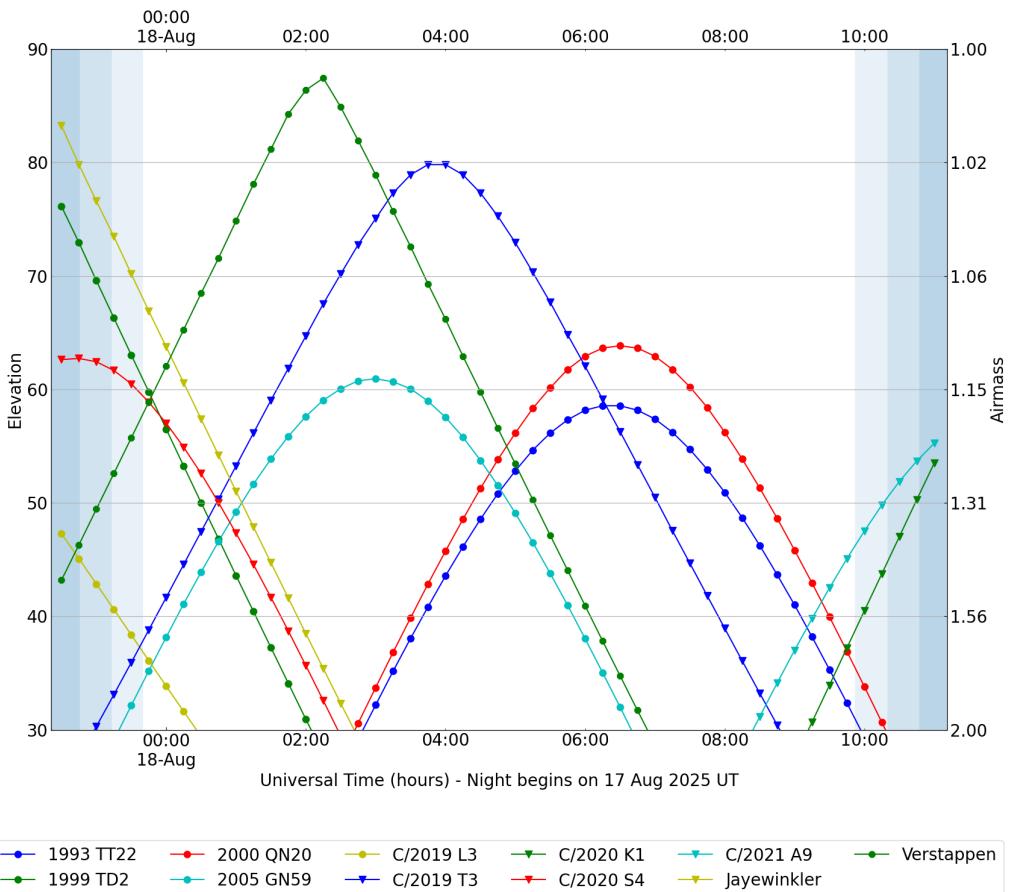
Sunrise-Sunset: 22:20 - 11:12 UT

Twilight-Twilight: 23:40 - 09:53 UT

Night lasts: 12.9 / 10.2 hours.

Lunar Illumination: 0.38

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:33	2:50:26	20.02	0.116	2.50	25.9
C/2020 K1	6:35:20	-17:20:37	18.43	0.202	1.50	54.9
C/2019 L3	12:15:07	-52:55:37	18.97	0.215	1.75	128.1
1999 TD2	14:27:34	-27:35:37	20.20	0.873	3.50	154.8
Jayewinkler	14:58:56	-31:15:46	17.64	0.795	4.00	161.5
C/2020 S4	15:43:55	-1:50:21	21.05	0.149	4.00	153.3
Verstappen	19:12:00	-32:18:11	17.72	0.262	8.25	142.8
2005 GN59	20:04:13	-0:07:15	17.60	1.370	7.25	120.2
C/2019 T3	20:55:45	-39:31:47	21.45	0.242	9.50	122.6
1993 TT22	23:26:41	2:09:50	18.25	0.429	7.00	74.5
2000 QN20	23:34:08	-3:11:11	18.23	0.414	7.25	75.4



2025-Aug-17

MPC code: 809

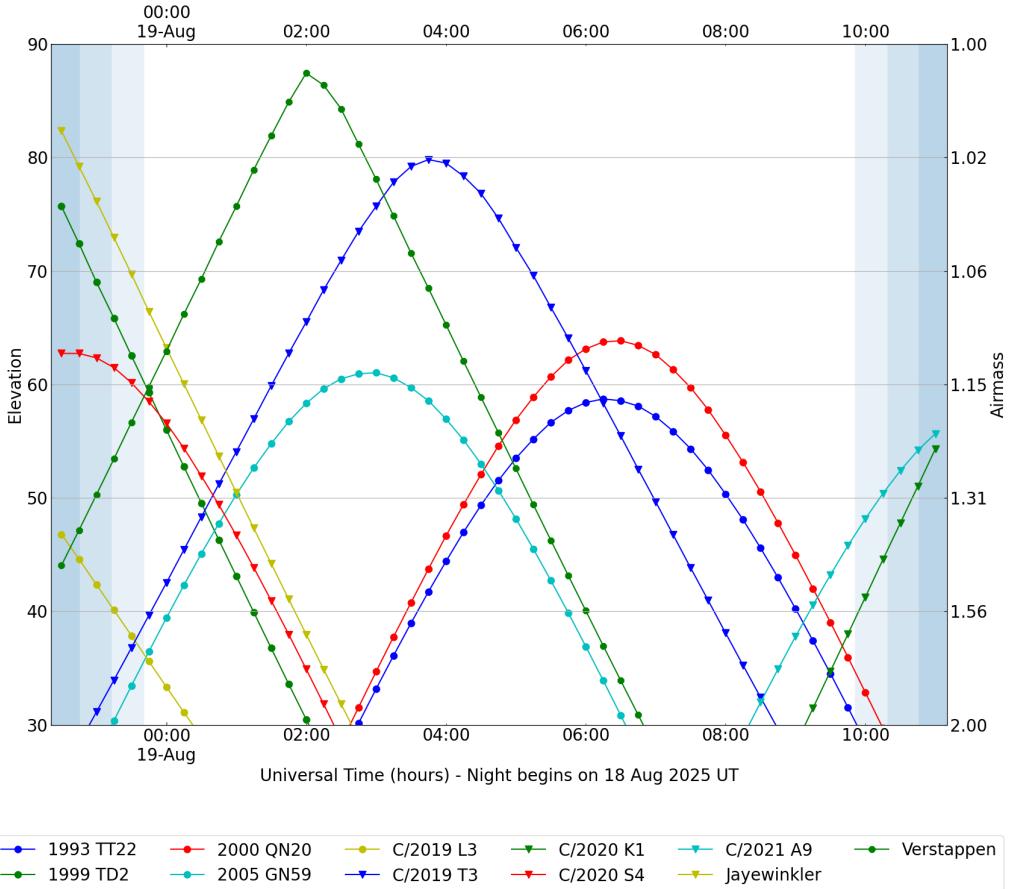
Sunrise-Sunset: 22:21 - 11:11 UT

Twilight-Twilight: 23:40 - 09:52 UT

Night lasts: 12.8 / 10.2 hours.

Lunar Illumination: 0.28

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:30	2:47:40	20.02	0.119	2.50	26.4
C/2020 K1	6:35:39	-17:22:05	18.43	0.199	1.75	49.1
C/2019 L3	12:15:40	-52:54:47	18.98	0.217	1.75	120.0
1999 TD2	14:29:01	-27:44:05	20.20	0.881	3.50	141.6
Jayewinkler	15:00:25	-31:14:28	17.65	0.804	4.00	148.9
C/2020 S4	15:44:03	-1:53:22	21.05	0.152	3.75	144.2
Verstappen	19:11:43	-32:13:26	17.74	0.253	8.25	156.6
2005 GN59	20:02:08	-0:12:27	17.60	1.368	7.00	132.7
C/2019 T3	20:55:18	-39:34:00	21.45	0.241	9.75	135.6
1993 TT22	23:26:09	2:03:51	18.22	0.446	6.75	88.5
2000 QN20	23:33:30	-3:11:01	18.20	0.432	7.50	89.4



2025-Aug-18

MPC code: 809

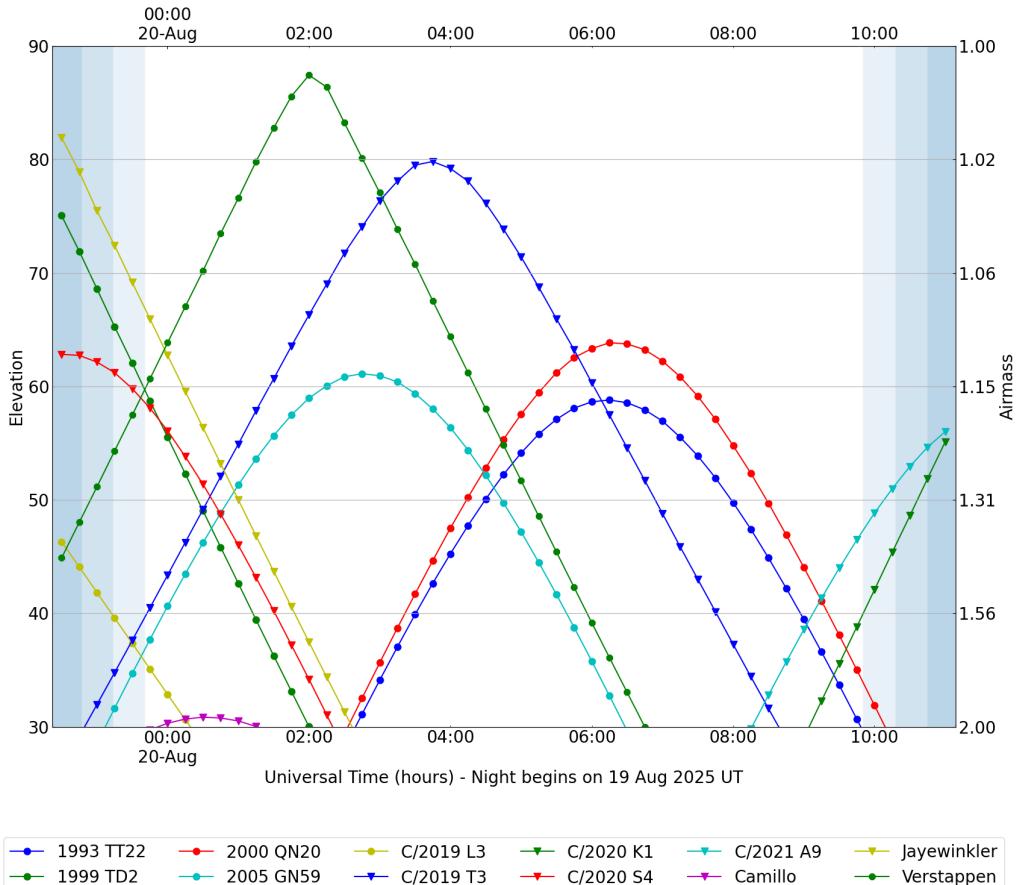
Sunrise-Sunset: 22:21 - 11:10 UT

Twilight-Twilight: 23:41 - 09:51 UT

Night lasts: 12.8 / 10.2 hours.

Lunar Illumination: 0.18

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:27	2:44:53	20.01	0.121	2.50	33.0
C/2020 K1	6:35:58	-17:23:36	18.43	0.196	1.75	46.1
C/2019 L3	12:16:14	-52:54:01	18.98	0.218	1.75	110.9
1999 TD2	14:30:28	-27:52:34	20.21	0.889	3.50	128.5
Jayewinkler	15:01:55	-31:13:14	17.66	0.812	4.00	135.9
C/2020 S4	15:44:12	-1:56:23	21.06	0.155	3.75	133.0
Verstappen	19:11:29	-32:08:35	17.77	0.246	8.25	169.7
2005 GN59	20:00:03	-0:18:01	17.60	1.366	7.25	144.1
C/2019 T3	20:54:50	-39:36:09	21.45	0.239	9.50	147.7
1993 TT22	23:25:35	1:57:39	18.20	0.464	7.00	102.4
2000 QN20	23:32:50	-3:11:01	18.17	0.450	7.25	103.4



2025-Aug-19

MPC code: 809

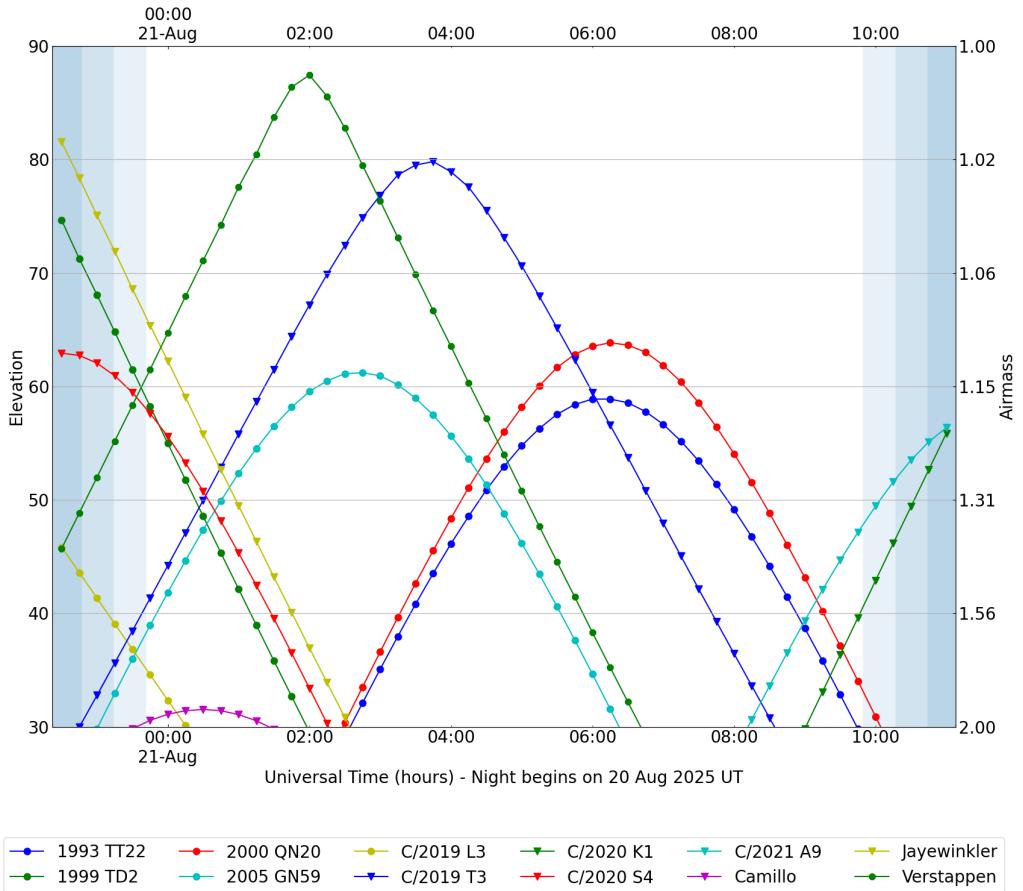
Sunrise-Sunset: 22:22 - 11:09 UT

Twilight-Twilight: 23:41 - 09:50 UT

Night lasts: 12.8 / 10.1 hours.

Lunar Illumination: 0.11

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:24	2:42:04	20.01	0.124	2.50	42.6
C/2020 K1	6:36:16	-17:25:10	18.43	0.194	1.75	45.8
C/2019 L3	12:16:48	-52:53:18	18.99	0.219	1.75	101.1
1999 TD2	14:31:57	-28:01:02	20.23	0.897	3.50	115.4
Jayewinkler	15:03:26	-31:12:05	17.67	0.821	4.00	122.8
C/2020 S4	15:44:21	-1:59:25	21.07	0.158	3.75	121.1
Camillo	17:43:29	29:53:48	18.38	1.724	1.25	118.2
Verstappen	19:11:18	-32:03:38	17.79	0.239	8.25	173.5
2005 GN59	19:57:58	-0:23:59	17.60	1.360	7.00	152.8
C/2019 T3	20:54:23	-39:38:15	21.46	0.237	9.50	157.8
1993 TT22	23:25:00	1:51:12	18.17	0.482	7.00	116.2
2000 QN20	23:32:08	-3:11:08	18.15	0.467	7.25	117.1



2025-Aug-20

MPC code: 809

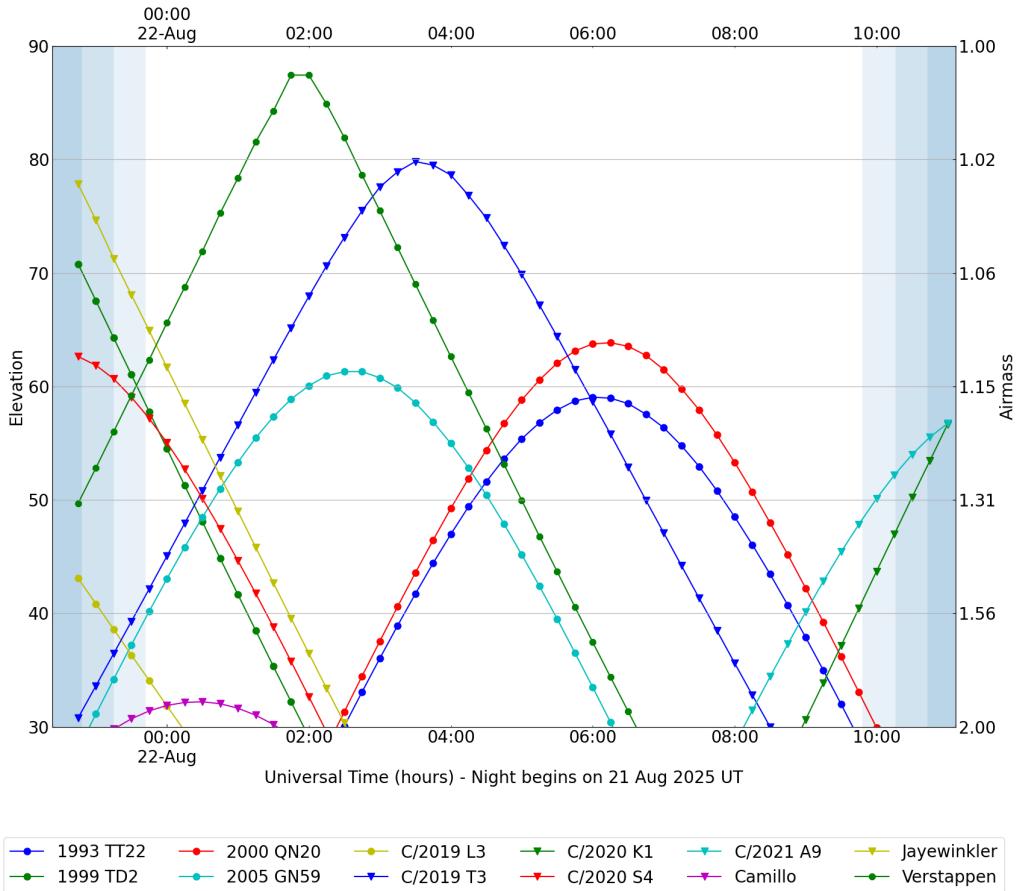
Sunrise-Sunset: 22:22 - 11:08 UT

Twilight-Twilight: 23:42 - 09:49 UT

Night lasts: 12.8 / 10.1 hours.

Lunar Illumination: 0.05

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:20	2:39:13	20.01	0.126	2.75	53.6
C/2020 K1	6:36:34	-17:26:46	18.43	0.191	1.75	48.6
C/2019 L3	12:17:22	-52:52:40	18.99	0.220	1.75	91.3
1999 TD2	14:33:27	-28:09:31	20.23	0.905	3.25	102.5
Jayewinkler	15:04:58	-31:11:00	17.68	0.829	4.00	109.9
C/2020 S4	15:44:30	-2:02:28	21.08	0.161	3.75	109.0
Camillo	17:43:29	29:12:37	18.39	1.726	1.50	114.7
Verstappen	19:11:09	-31:58:35	17.81	0.235	8.00	161.5
2005 GN59	19:55:55	-0:30:18	17.60	1.354	7.00	156.0
C/2019 T3	20:53:56	-39:40:19	21.46	0.235	9.50	162.5
1993 TT22	23:24:23	1:44:32	18.15	0.498	6.75	129.7
2000 QN20	23:31:24	-3:11:25	18.12	0.484	7.50	130.7



2025-Aug-21

MPC code: 809

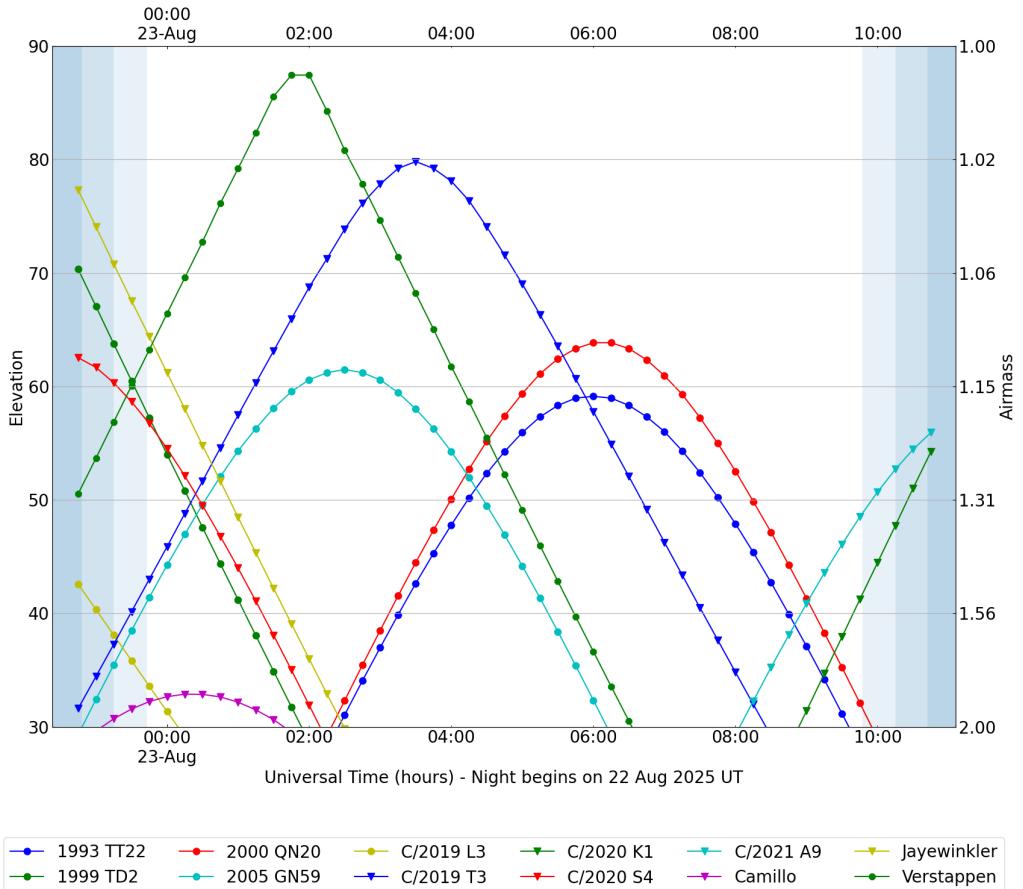
Sunrise-Sunset: 22:23 - 11:07 UT

Twilight-Twilight: 23:42 - 09:48 UT

Night lasts: 12.7 / 10.1 hours.

Lunar Illumination: 0.01

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:15	2:36:19	20.01	0.129	2.75	65.2
C/2020 K1	6:36:51	-17:28:26	18.44	0.188	2.00	53.8
C/2019 L3	12:17:57	-52:52:04	19.00	0.221	1.25	81.5
1999 TD2	14:34:59	-28:18:02	20.24	0.914	3.00	89.7
Jayewinkler	15:06:32	-31:09:59	17.68	0.837	3.75	97.0
C/2020 S4	15:44:40	-2:05:32	21.09	0.164	3.25	96.8
Camillo	17:43:33	28:31:10	18.39	1.727	2.00	109.7
Verstappen	19:11:02	-31:53:26	17.84	0.232	7.75	148.4
2005 GN59	19:53:52	-0:37:02	17.60	1.345	7.25	152.4
C/2019 T3	20:53:29	-39:42:20	21.46	0.233	9.75	158.4
1993 TT22	23:23:44	1:37:36	18.12	0.514	7.00	143.1
2000 QN20	23:30:39	-3:11:50	18.09	0.500	7.25	144.2



2025-Aug-22

MPC code: 809

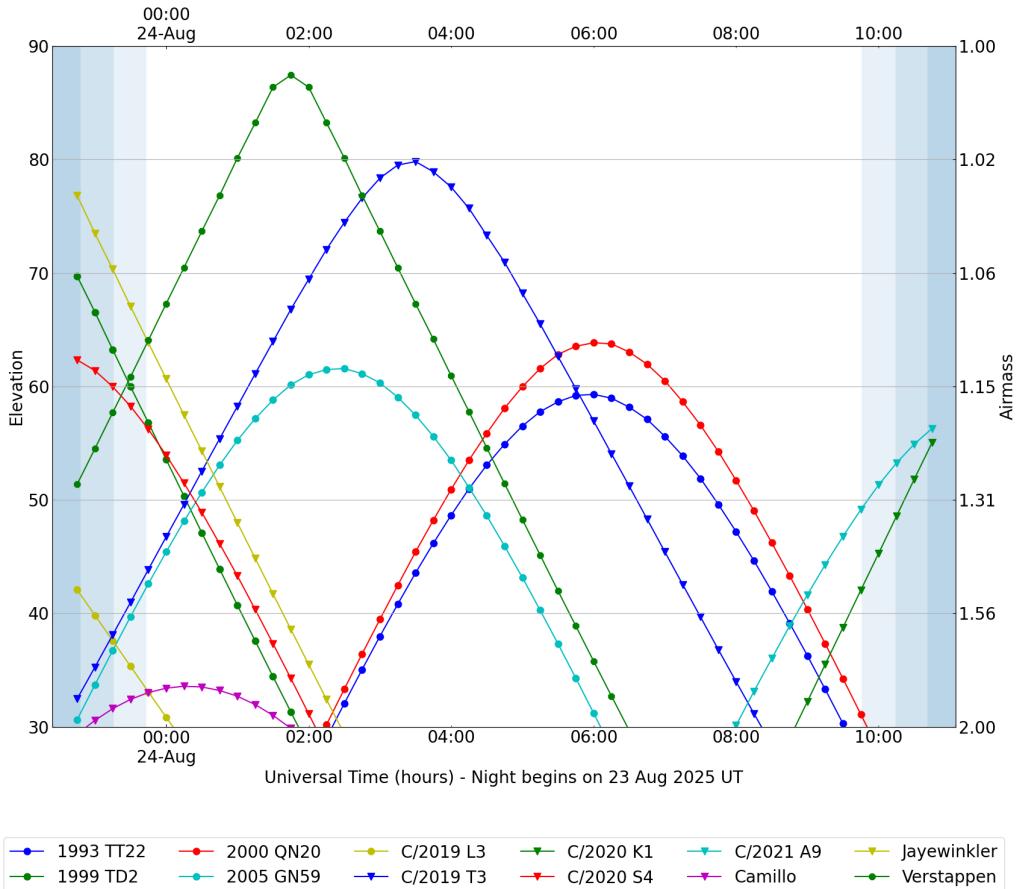
Sunrise-Sunset: 22:23 - 11:06 UT

Twilight-Twilight: 23:43 - 09:47 UT

Night lasts: 12.7 / 10.1 hours.

Lunar Illumination: 0.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:11	2:33:25	20.00	0.132	2.50	76.7
C/2020 K1	6:37:09	-17:30:07	18.44	0.185	1.75	60.6
C/2019 L3	12:18:32	-52:51:33	19.00	0.222	1.25	72.1
1999 TD2	14:36:30	-28:26:28	20.25	0.921	3.00	77.2
Jayewinkler	15:08:05	-31:09:02	17.69	0.845	3.50	84.6
C/2020 S4	15:44:50	-2:08:34	21.09	0.167	3.25	84.9
Camillo	17:43:38	27:50:08	18.40	1.728	2.25	103.8
Verstappen	19:10:57	-31:48:16	17.86	0.232	7.75	135.7
2005 GN59	19:51:52	-0:44:02	17.61	1.334	7.00	144.0
C/2019 T3	20:53:02	-39:44:17	21.47	0.231	9.50	149.1
1993 TT22	23:23:05	1:30:31	18.10	0.530	7.00	156.1
2000 QN20	23:29:53	-3:12:22	18.07	0.516	7.25	157.3



2025-Aug-23

MPC code: 809

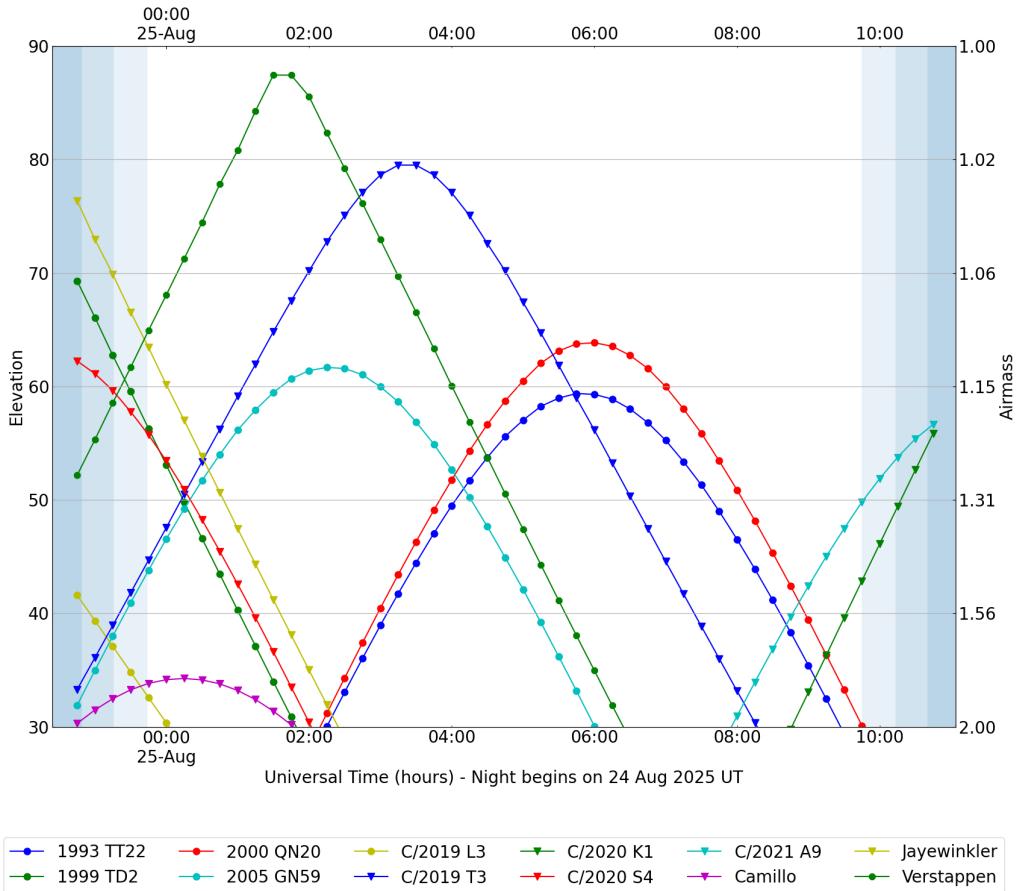
Sunrise-Sunset: 22:24 - 11:05 UT

Twilight-Twilight: 23:43 - 09:46 UT

Night lasts: 12.7 / 10.1 hours.

Lunar Illumination: 0.01

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:05	2:30:28	20.00	0.135	2.75	88.3
C/2020 K1	6:37:25	-17:31:52	18.44	0.183	1.75	68.3
C/2019 L3	12:19:06	-52:51:05	19.01	0.223	1.25	63.3
1999 TD2	14:38:03	-28:34:56	20.26	0.928	3.00	65.0
Jayewinkler	15:09:40	-31:08:08	17.70	0.853	3.50	72.3
C/2020 S4	15:45:00	-2:11:38	21.10	0.170	3.25	73.1
Camillo	17:43:47	27:08:54	18.41	1.729	2.50	97.3
Verstappen	19:10:55	-31:42:59	17.89	0.233	7.50	123.0
2005 GN59	19:49:53	-0:51:25	17.61	1.323	7.25	133.5
C/2019 T3	20:52:36	-39:46:12	21.47	0.229	9.50	138.0
1993 TT22	23:22:25	1:23:12	18.07	0.544	7.00	168.4
2000 QN20	23:29:05	-3:13:02	18.04	0.531	7.50	170.2



2025-Aug-24

MPC code: 809

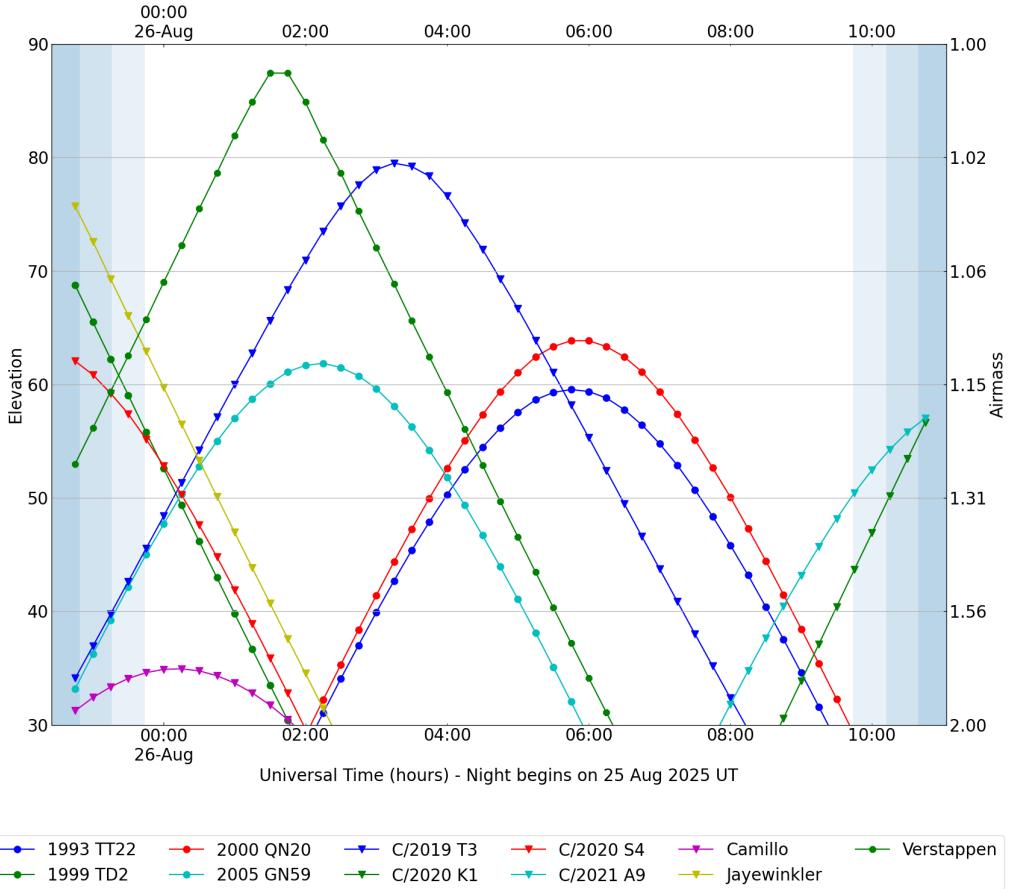
Sunrise-Sunset: 22:24 - 11:04 UT

Twilight-Twilight: 23:44 - 09:45 UT

Night lasts: 12.7 / 10.0 hours.

Lunar Illumination: 0.04

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	5:00:00	2:27:30	20.00	0.138	2.75	99.6
C/2020 K1	6:37:42	-17:33:39	18.44	0.180	1.75	76.6
C/2019 L3	12:19:42	-52:50:41	19.01	0.224	1.25	55.4
1999 TD2	14:39:37	-28:43:24	20.27	0.936	3.00	53.1
Jayewinkler	15:11:15	-31:07:18	17.71	0.861	3.50	60.3
C/2020 S4	15:45:11	-2:14:43	21.11	0.173	3.25	61.8
Camillo	17:43:57	26:27:41	18.41	1.728	3.00	90.3
Verstappen	19:10:55	-31:37:37	17.91	0.235	7.50	110.5
2005 GN59	19:47:55	-0:59:08	17.61	1.307	7.25	122.3
C/2019 T3	20:52:09	-39:48:04	21.48	0.226	9.50	126.5
1993 TT22	23:21:43	1:15:40	18.05	0.558	7.00	174.7
2000 QN20	23:28:15	-3:13:49	18.01	0.545	7.50	177.1



2025-Aug-25

MPC code: 809

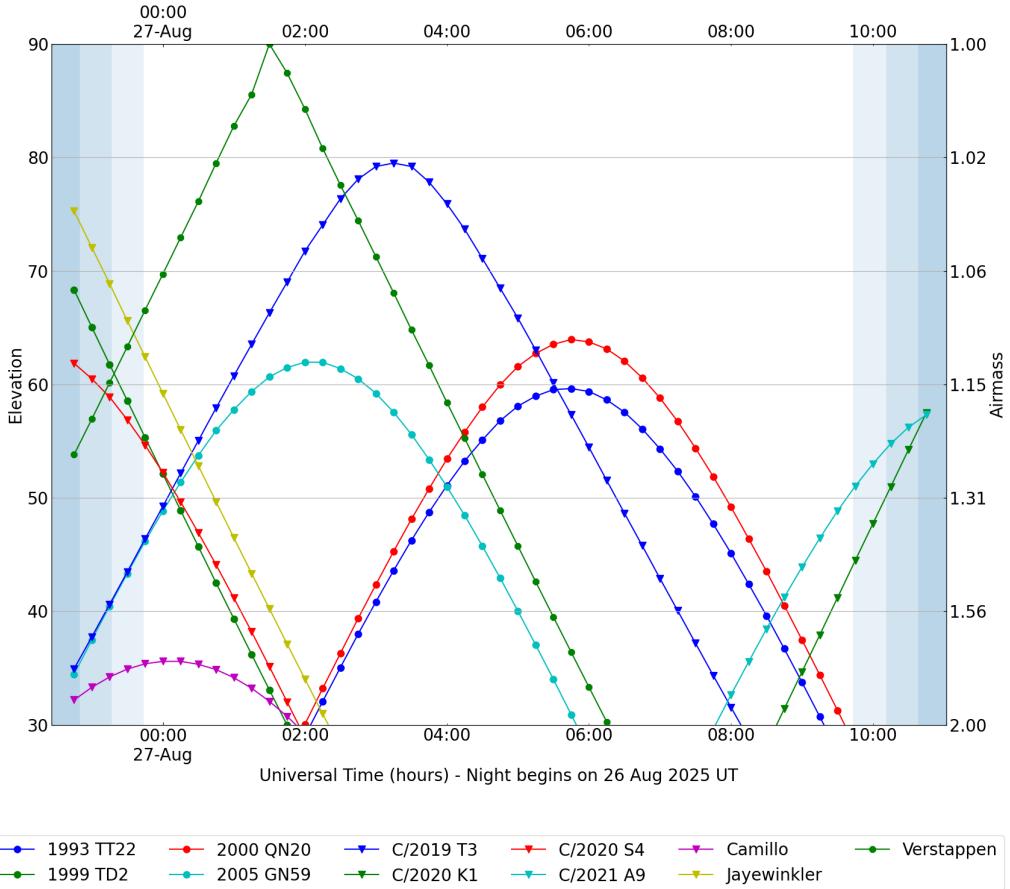
Sunrise-Sunset: 22:25 - 11:03 UT

Twilight-Twilight: 23:44 - 09:44 UT

Night lasts: 12.6 / 10.0 hours.

Lunar Illumination: 0.08

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:54	2:24:30	20.00	0.142	2.75	110.6
C/2020 K1	6:37:58	-17:35:28	18.44	0.177	2.00	85.0
1999 TD2	14:41:12	-28:51:52	20.28	0.943	3.00	41.4
Jayewinkler	15:12:51	-31:06:32	17.72	0.869	3.50	48.5
C/2020 S4	15:45:22	-2:17:48	21.12	0.176	3.00	50.8
Camillo	17:44:10	25:46:31	18.42	1.727	3.00	83.3
Verstappen	19:10:58	-31:32:12	17.93	0.238	7.50	98.3
2005 GN59	19:46:00	-1:07:09	17.62	1.292	7.00	110.9
C/2019 T3	20:51:43	-39:49:52	21.48	0.224	9.25	115.0
1993 TT22	23:21:01	1:07:57	18.02	0.571	7.00	164.6
2000 QN20	23:27:24	-3:14:43	17.98	0.558	7.25	164.6



2025-Aug-26

MPC code: 809

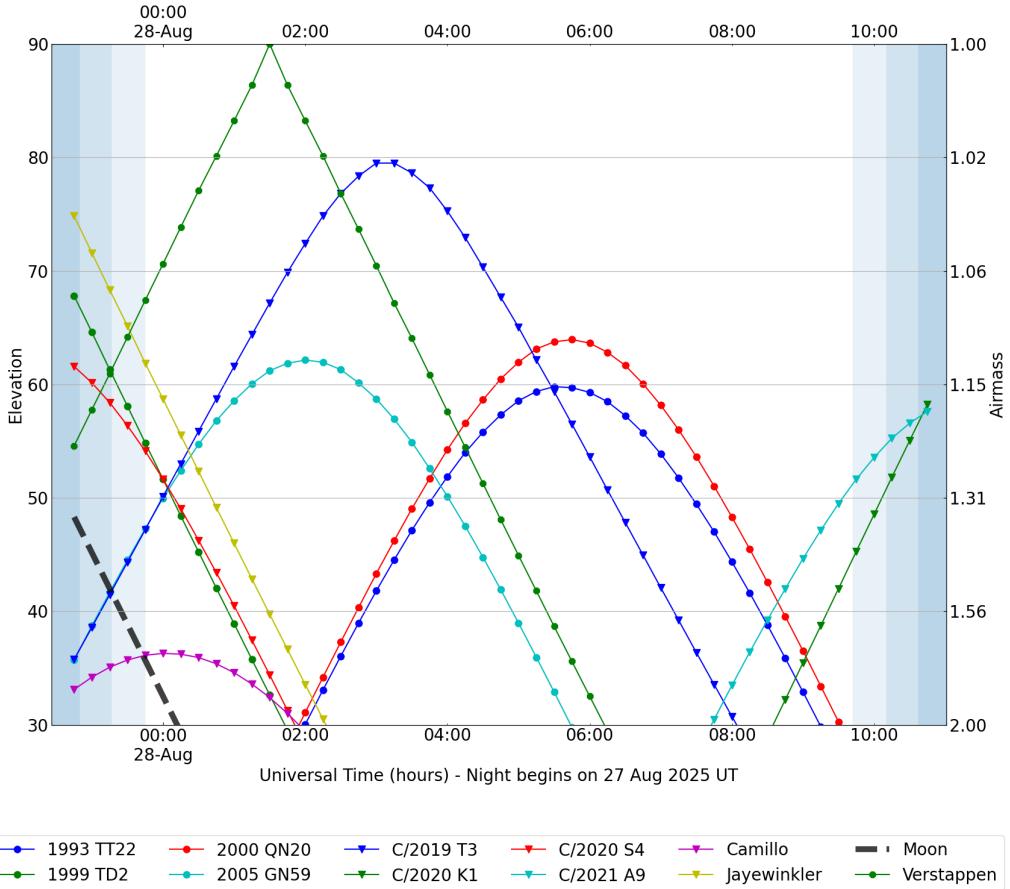
Sunrise-Sunset: 22:26 - 11:02 UT

Twilight-Twilight: 23:44 - 09:43 UT

Night lasts: 12.6 / 10.0 hours.

Lunar Illumination: 0.15

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:47	2:21:28	20.00	0.145	2.75	121.2
C/2020 K1	6:38:13	-17:37:20	18.44	0.174	2.00	93.4
1999 TD2	14:42:48	-29:00:19	20.29	0.950	2.75	30.1
Jayewinkler	15:14:29	-31:05:48	17.73	0.876	3.50	37.0
C/2020 S4	15:45:34	-2:20:53	21.12	0.179	3.00	40.6
Camillo	17:44:26	25:05:25	18.43	1.726	3.00	76.3
Verstappen	19:11:02	-31:26:42	17.95	0.243	7.50	86.3
2005 GN59	19:44:06	-1:15:29	17.62	1.273	7.00	99.5
C/2019 T3	20:51:17	-39:51:38	21.49	0.222	9.25	103.5
1993 TT22	23:20:17	1:00:03	18.00	0.584	7.00	152.6
2000 QN20	23:26:33	-3:15:44	17.95	0.571	7.50	152.4



2025-Aug-27

MPC code: 809

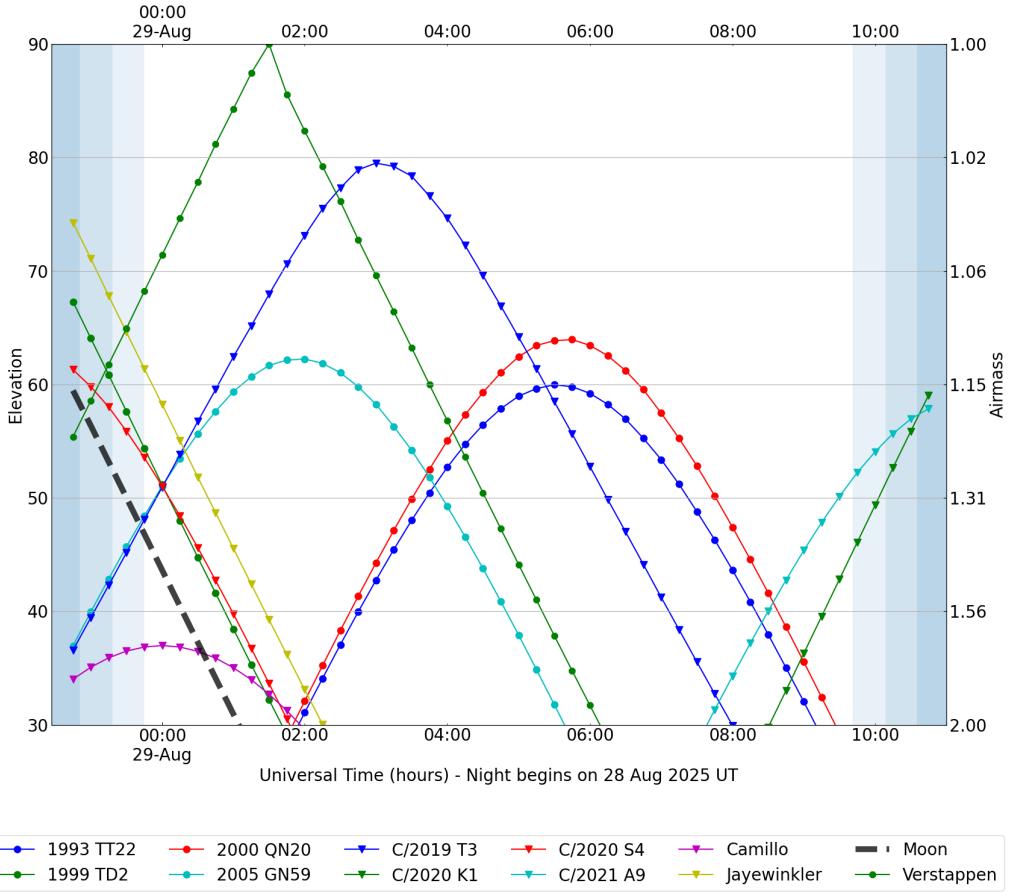
Sunrise-Sunset: 22:26 - 11:01 UT

Twilight-Twilight: 23:45 - 09:42 UT

Night lasts: 12.6 / 10.0 hours.

Lunar Illumination: 0.22

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:40	2:18:24	19.99	0.148	3.00	131.3
C/2020 K1	6:38:28	-17:39:15	18.44	0.171	2.00	101.6
1999 TD2	14:44:25	-29:08:45	20.30	0.957	2.75	19.3
Jayewinkler	15:16:07	-31:05:08	17.73	0.884	3.50	25.8
C/2020 S4	15:45:46	-2:23:59	21.13	0.182	3.00	31.4
Camillo	17:44:44	24:24:24	18.44	1.724	3.00	69.6
Verstappen	19:11:09	-31:21:08	17.98	0.249	7.25	74.5
2005 GN59	19:42:15	-1:24:06	17.63	1.254	6.75	88.1
C/2019 T3	20:50:51	-39:53:21	21.49	0.219	9.25	92.0
1993 TT22	23:19:33	0:51:57	17.97	0.595	7.00	140.6
2000 QN20	23:25:40	-3:16:51	17.93	0.583	7.50	140.2



2025-Aug-28

MPC code: 809

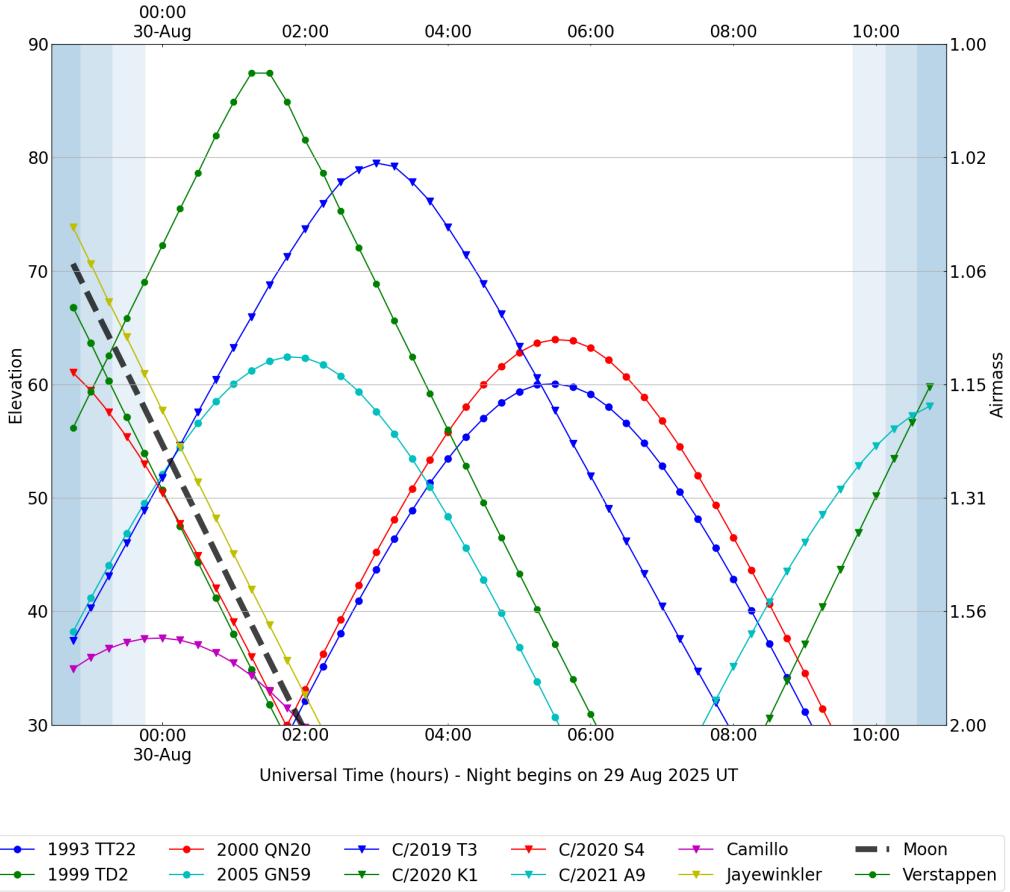
Sunrise-Sunset: 22:27 - 11:00 UT

Twilight-Twilight: 23:45 - 09:41 UT

Night lasts: 12.6 / 9.9 hours.

Lunar Illumination: 0.30

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:32	2:15:19	19.99	0.152	3.00	140.6
C/2020 K1	6:38:43	-17:41:12	18.45	0.169	2.00	109.5
1999 TD2	14:46:03	-29:17:11	20.30	0.964	2.75	10.3
Jayewinkler	15:17:46	-31:04:31	17.74	0.891	3.50	15.2
C/2020 S4	15:45:59	-2:27:05	21.14	0.185	3.00	24.3
Camillo	17:45:04	23:43:29	18.45	1.721	3.00	63.4
Verstappen	19:11:19	-31:15:31	18.00	0.257	7.25	62.7
2005 GN59	19:40:26	-1:33:00	17.64	1.232	6.75	76.8
C/2019 T3	20:50:26	-39:55:01	21.49	0.217	9.00	80.7
1993 TT22	23:18:47	0:43:42	17.95	0.606	7.00	128.6
2000 QN20	23:24:45	-3:18:04	17.90	0.593	7.25	128.2



2025-Aug-29

MPC code: 809

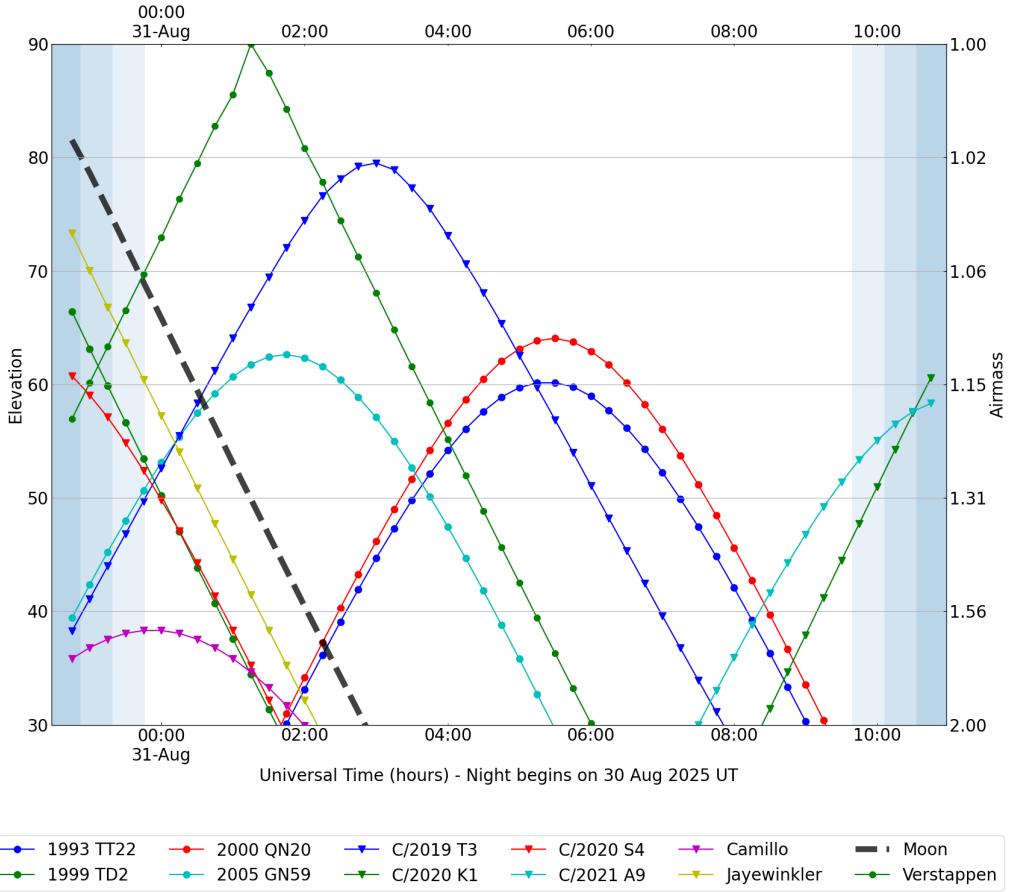
Sunrise-Sunset: 22:27 - 10:59 UT

Twilight-Twilight: 23:46 - 09:40 UT

Night lasts: 12.5 / 9.9 hours.

Lunar Illumination: 0.39

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:24	2:12:11	19.99	0.156	3.00	148.5
C/2020 K1	6:38:57	-17:43:11	18.45	0.166	2.25	116.9
1999 TD2	14:47:42	-29:25:36	20.31	0.971	2.75	9.9
Jayewinkler	15:19:25	-31:03:56	17.75	0.898	3.25	8.0
C/2020 S4	15:46:12	-2:30:11	21.15	0.188	2.75	21.5
Camillo	17:45:26	23:02:42	18.46	1.718	3.00	57.9
Verstappen	19:11:30	-31:09:50	18.02	0.266	7.25	51.0
2005 GN59	19:38:40	-1:42:09	17.64	1.208	6.75	65.6
C/2019 T3	20:50:00	-39:56:37	21.50	0.214	9.00	69.4
1993 TT22	23:18:01	0:35:17	17.92	0.616	7.00	116.7
2000 QN20	23:23:50	-3:19:23	17.87	0.604	7.25	116.2



2025-Aug-30

MPC code: 809

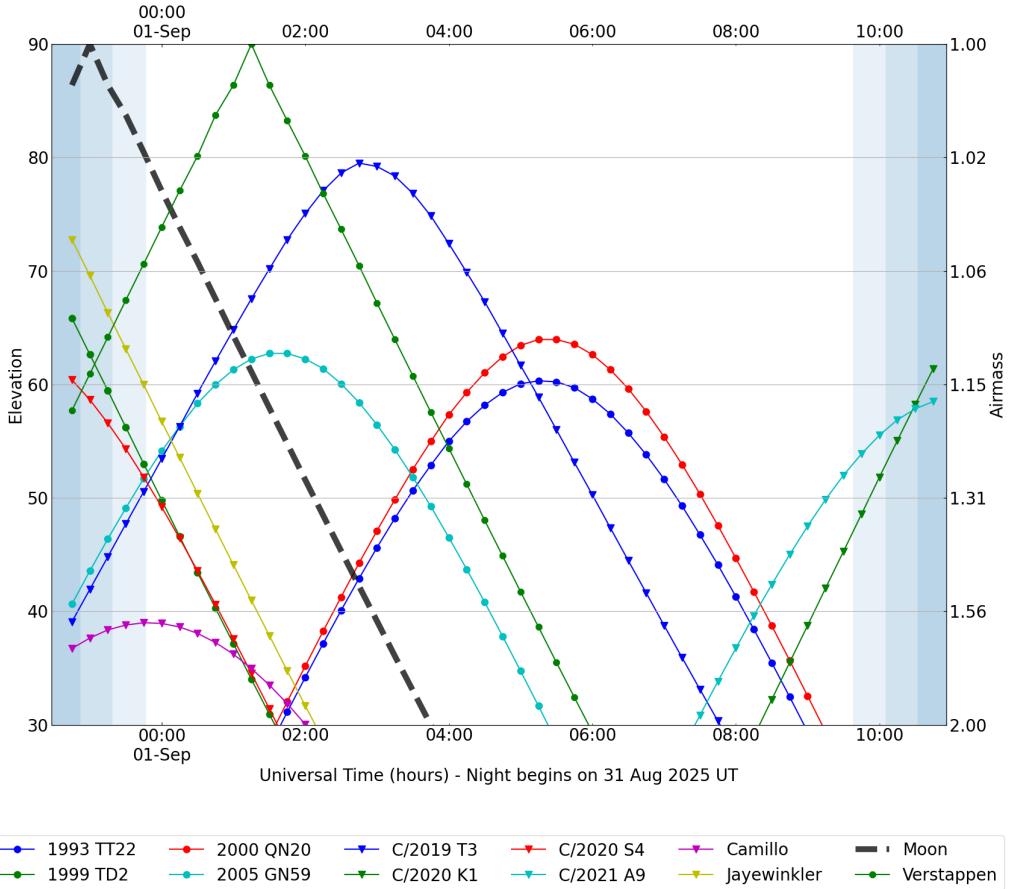
Sunrise-Sunset: 22:28 - 10:58 UT

Twilight-Twilight: 23:46 - 09:39 UT

Night lasts: 12.5 / 9.9 hours.

Lunar Illumination: 0.49

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:16	2:09:03	19.99	0.159	3.25	153.6
C/2020 K1	6:39:11	-17:45:12	18.45	0.163	2.25	123.6
1999 TD2	14:49:21	-29:34:00	20.32	0.978	2.75	18.8
Jayewinkler	15:21:06	-31:03:24	17.76	0.905	3.25	12.4
C/2020 S4	15:46:25	-2:33:17	21.16	0.191	2.75	24.4
Camillo	17:45:50	22:22:04	18.47	1.715	3.00	53.5
Verstappen	19:11:44	-31:04:06	18.05	0.276	7.25	39.3
2005 GN59	19:36:56	-1:51:33	17.65	1.183	6.50	54.6
C/2019 T3	20:49:35	-39:58:11	21.50	0.212	9.00	58.1
1993 TT22	23:17:15	0:26:44	17.89	0.624	7.25	104.6
2000 QN20	23:22:54	-3:20:46	17.84	0.612	7.50	104.1



2025-Aug-31

MPC code: 809

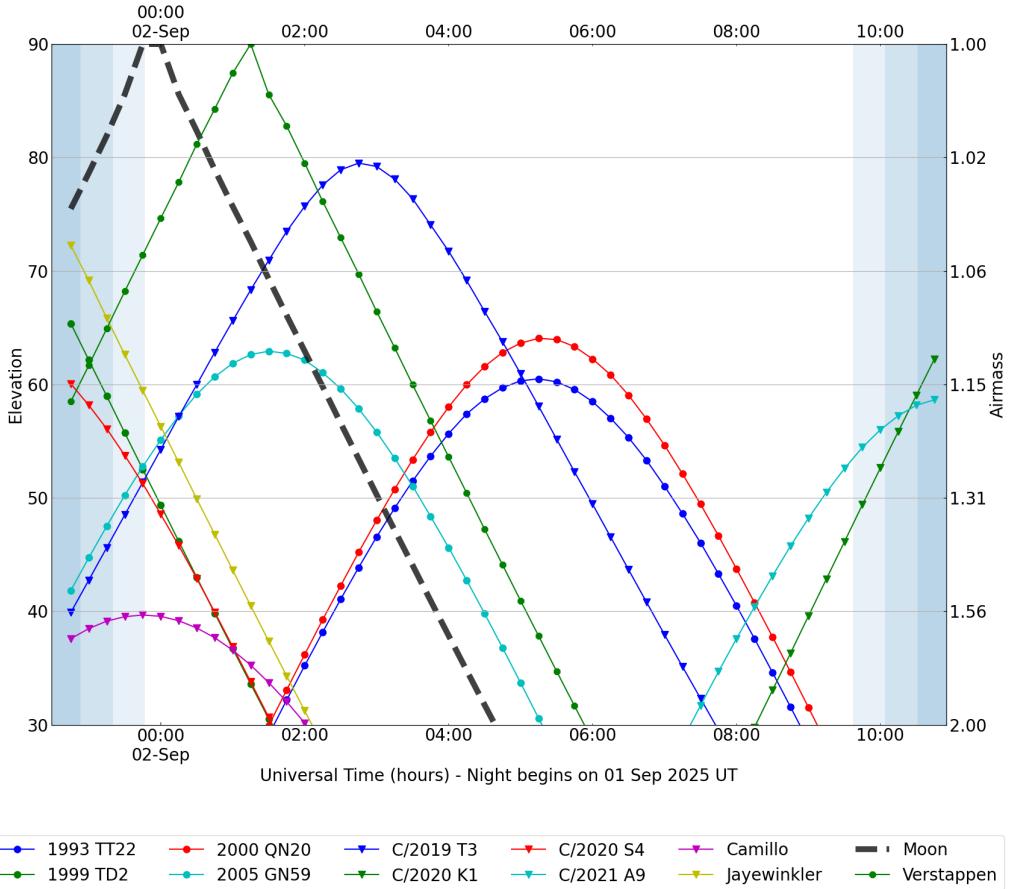
Sunrise-Sunset: 22:28 - 10:56 UT

Twilight-Twilight: 23:47 - 09:38 UT

Night lasts: 12.5 / 9.9 hours.

Lunar Illumination: 0.58

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:59:07	2:05:52	19.98	0.163	3.25	154.1
C/2020 K1	6:39:25	-17:47:15	18.45	0.160	2.25	129.1
1999 TD2	14:51:02	-29:42:23	20.33	0.984	2.75	29.6
Jayewinkler	15:22:47	-31:02:54	17.77	0.912	3.25	22.7
C/2020 S4	15:46:39	-2:36:24	21.16	0.194	2.75	31.6
Camillo	17:46:17	21:41:34	18.48	1.711	3.25	50.5
Verstappen	19:12:00	-30:58:19	18.07	0.287	7.00	27.4
2005 GN59	19:35:16	-2:01:12	17.65	1.157	6.50	44.0
C/2019 T3	20:49:11	-39:59:42	21.51	0.209	9.00	47.0
1993 TT22	23:16:27	0:18:02	17.87	0.633	7.00	92.4
2000 QN20	23:21:58	-3:22:14	17.81	0.621	7.25	91.9



2025-Sep-01

MPC code: 809

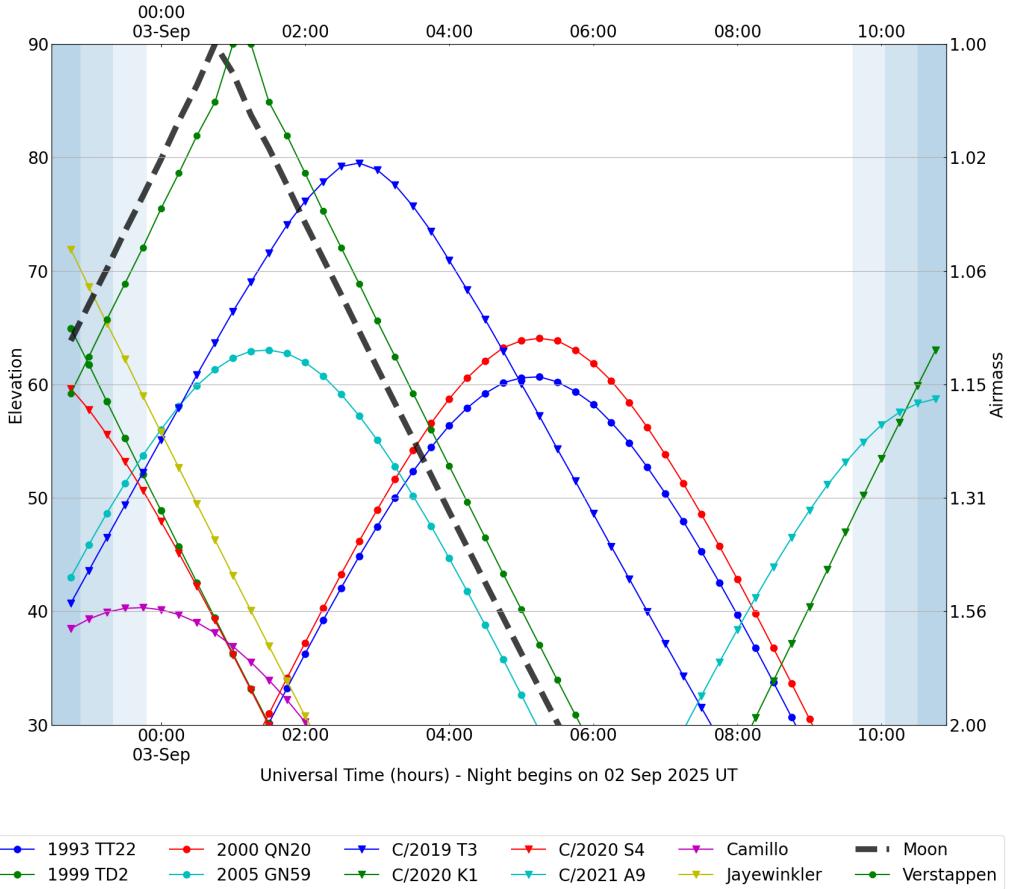
Sunrise-Sunset: 22:29 - 10:55 UT

Twilight-Twilight: 23:47 - 09:37 UT

Night lasts: 12.4 / 9.8 hours.

Lunar Illumination: 0.68

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:58:58	2:02:40	19.98	0.167	3.25	149.8
C/2020 K1	6:39:38	-17:49:21	18.45	0.158	2.25	133.0
1999 TD2	14:52:44	-29:50:45	20.33	0.991	2.75	41.1
Jayewinkler	15:24:29	-31:02:26	17.77	0.919	3.25	34.1
C/2020 S4	15:46:53	-2:39:30	21.17	0.197	2.75	41.1
Camillo	17:46:45	21:01:16	18.48	1.707	3.25	49.5
Verstappen	19:12:18	-30:52:28	18.09	0.299	7.00	15.5
2005 GN59	19:33:38	-2:11:04	17.66	1.129	6.50	34.1
C/2019 T3	20:48:46	-40:01:10	21.51	0.206	8.75	36.1
1993 TT22	23:15:39	0:09:12	17.84	0.640	7.00	79.9
2000 QN20	23:21:00	-3:23:47	17.78	0.627	7.25	79.4



2025-Sep-02

MPC code: 809

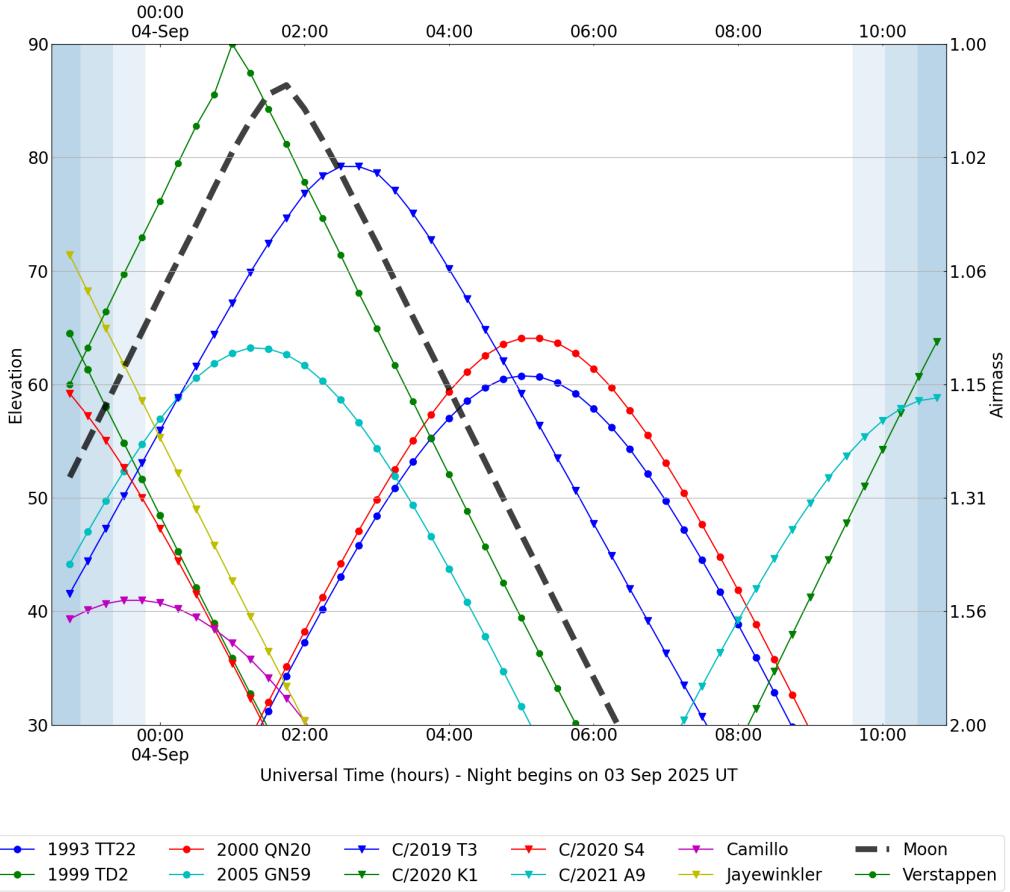
Sunrise-Sunset: 22:29 - 10:54 UT

Twilight-Twilight: 23:48 - 09:36 UT

Night lasts: 12.4 / 9.8 hours.

Lunar Illumination: 0.77

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:58:48	1:59:27	19.98	0.171	3.25	141.8
C/2020 K1	6:39:51	-17:51:29	18.45	0.155	2.50	134.7
1999 TD2	14:54:26	-29:59:06	20.34	0.997	2.75	53.0
Jayewinkler	15:26:12	-31:02:01	17.78	0.926	3.25	46.1
C/2020 S4	15:47:07	-2:42:37	21.18	0.200	2.50	51.9
Camillo	17:47:16	20:21:08	18.50	1.702	3.25	50.7
Verstappen	19:12:38	-30:46:35	18.11	0.312	7.00	4.7
2005 GN59	19:32:03	-2:21:08	17.67	1.101	6.25	26.2
C/2019 T3	20:48:22	-40:02:35	21.52	0.203	8.75	26.0
1993 TT22	23:14:51	0:00:15	17.81	0.646	7.25	67.1
2000 QN20	23:20:02	-3:25:24	17.74	0.634	7.50	66.6



2025-Sep-03

MPC code: 809

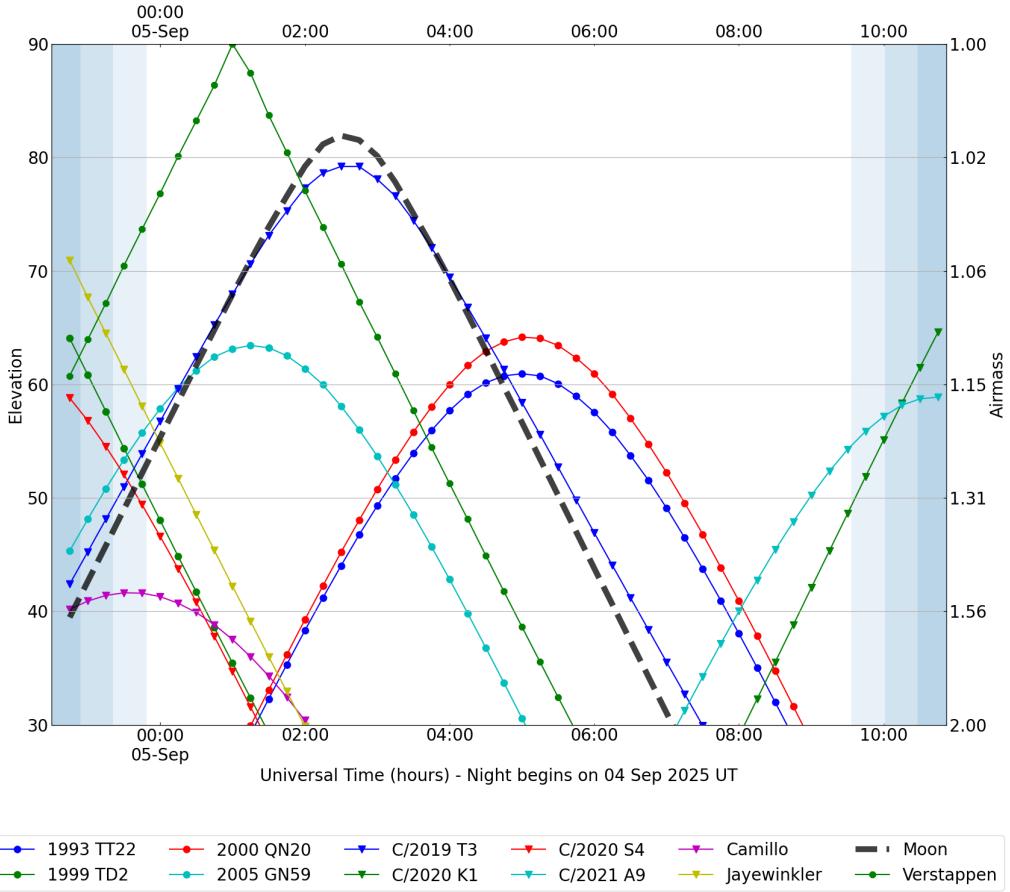
Sunrise-Sunset: 22:30 - 10:53 UT

Twilight-Twilight: 23:48 - 09:35 UT

Night lasts: 12.4 / 9.8 hours.

Lunar Illumination: 0.85

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:58:37	1:56:12	19.98	0.175	3.50	131.8
C/2020 K1	6:40:03	-17:53:38	18.45	0.152	2.50	133.6
1999 TD2	14:56:10	-30:07:25	20.35	1.003	2.50	65.3
Jayewinkler	15:27:55	-31:01:37	17.79	0.933	3.25	58.5
C/2020 S4	15:47:22	-2:45:44	21.19	0.203	2.50	63.4
Camillo	17:47:48	19:41:13	18.50	1.697	3.25	54.1
Verstappen	19:13:01	-30:40:39	18.14	0.325	7.00	11.0
2005 GN59	19:30:32	-2:31:24	17.68	1.072	6.25	23.0
C/2019 T3	20:47:58	-40:03:58	21.52	0.201	8.75	18.9
1993 TT22	23:14:02	-0:08:48	17.78	0.652	7.00	54.0
2000 QN20	23:19:04	-3:27:04	17.71	0.639	7.25	53.5



2025-Sep-04

MPC code: 809

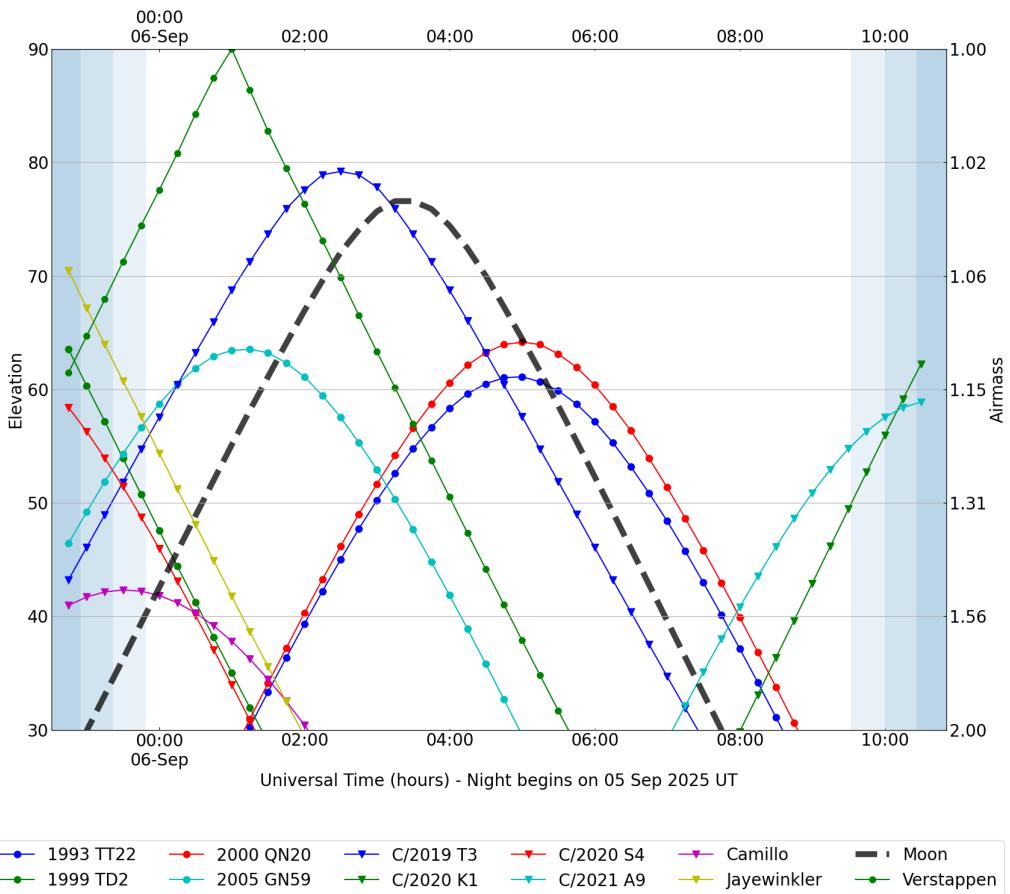
Sunrise-Sunset: 22:30 - 10:52 UT

Twilight-Twilight: 23:49 - 09:33 UT

Night lasts: 12.4 / 9.7 hours.

Lunar Illumination: 0.92

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:58:27	1:52:56	19.98	0.179	3.50	120.5
C/2020 K1	6:40:15	-17:55:50	18.45	0.150	2.50	129.8
1999 TD2	14:57:54	-30:15:43	20.35	1.009	2.50	78.1
Jayewinkler	15:29:39	-31:01:16	17.79	0.939	3.00	71.3
C/2020 S4	15:47:37	-2:48:50	21.19	0.206	2.50	75.6
Camillo	17:48:23	19:01:31	18.52	1.692	3.25	59.7
Verstappen	19:13:25	-30:34:40	18.16	0.338	6.75	23.8
2005 GN59	19:29:03	-2:41:52	17.68	1.042	6.25	26.8
C/2019 T3	20:47:34	-40:05:17	21.52	0.198	8.50	19.3
1993 TT22	23:13:13	-0:17:58	17.76	0.656	7.00	40.5
2000 QN20	23:18:05	-3:28:47	17.68	0.643	7.25	39.9



2025-Sep-05

MPC code: 809

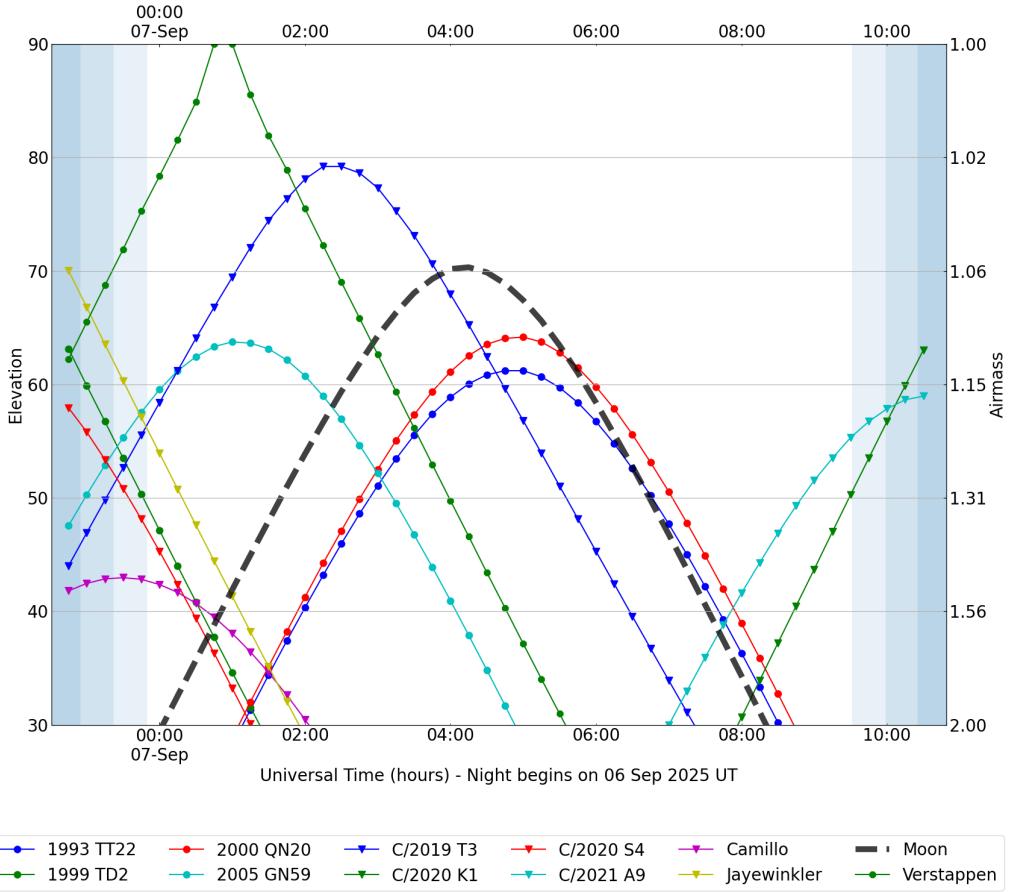
Sunrise-Sunset: 22:31 - 10:51 UT

Twilight-Twilight: 23:49 - 09:32 UT

Night lasts: 12.3 / 9.7 hours.

Lunar Illumination: 0.97

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:58:15	1:49:39	19.97	0.183	3.25	108.3
C/2020 K1	6:40:26	-17:58:03	18.45	0.147	2.25	123.7
1999 TD2	14:59:39	-30:23:56	20.36	1.015	2.50	91.3
Jayewinkler	15:31:24	-31:00:56	17.80	0.945	3.00	84.7
C/2020 S4	15:47:52	-2:51:56	21.20	0.209	2.50	88.2
Camillo	17:49:00	18:22:15	18.52	1.687	3.25	67.1
Verstappen	19:13:51	-30:28:41	18.18	0.351	6.75	37.3
2005 GN59	19:27:39	-2:52:26	17.69	1.014	6.00	35.9
C/2019 T3	20:47:11	-40:06:33	21.53	0.195	8.50	27.4
1993 TT22	23:12:24	-0:27:09	17.73	0.660	7.25	26.6
2000 QN20	23:17:05	-3:30:33	17.64	0.647	7.50	25.9



2025-Sep-06

MPC code: 809

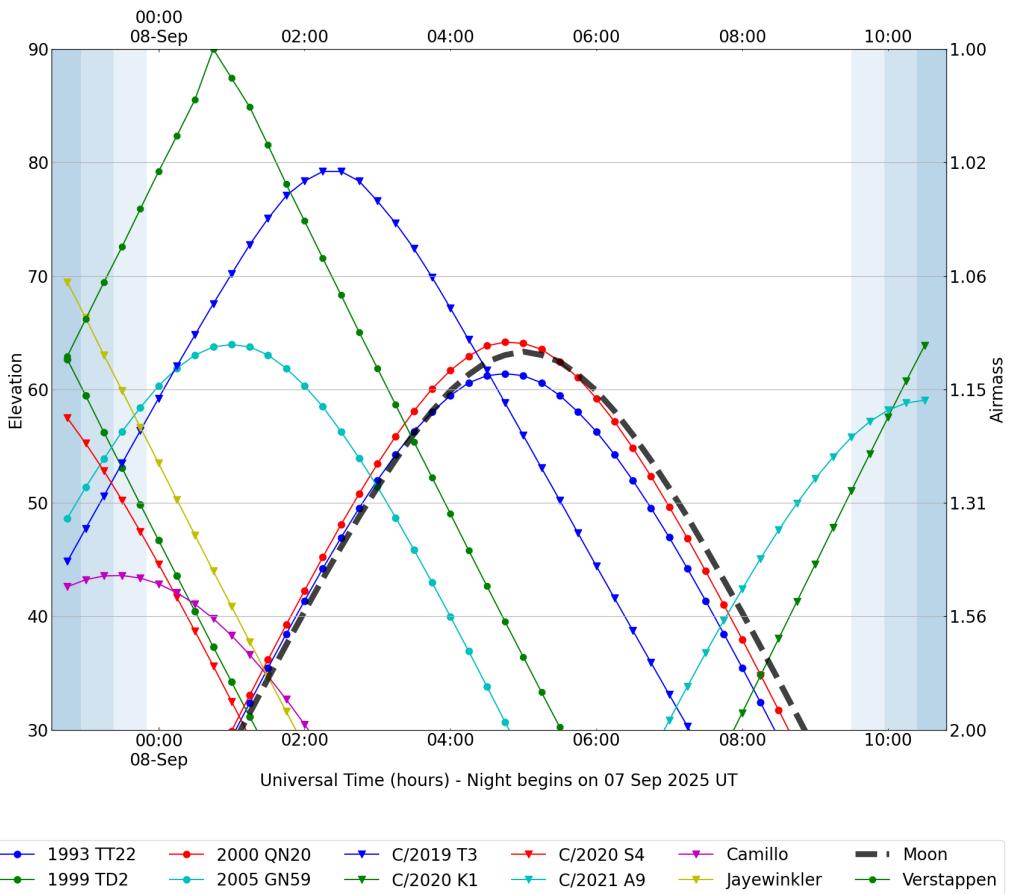
Sunrise-Sunset: 22:31 - 10:49 UT

Twilight-Twilight: 23:50 - 09:31 UT

Night lasts: 12.3 / 9.7 hours.

Lunar Illumination: 1.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:58:03	1:46:19	19.97	0.188	3.25	95.7
C/2020 K1	6:40:37	-18:00:18	18.45	0.144	2.50	115.7
1999 TD2	15:01:25	-30:32:11	20.37	1.021	2.50	105.0
Jayewinkler	15:33:10	-31:00:37	17.81	0.952	3.00	98.3
C/2020 S4	15:48:08	-2:55:03	21.21	0.212	2.50	101.3
Camillo	17:49:37	17:43:02	18.54	1.681	3.25	75.8
Verstappen	19:14:20	-30:22:37	18.20	0.365	6.75	51.3
2005 GN59	19:26:18	-3:03:14	17.70	0.983	6.00	47.6
C/2019 T3	20:46:47	-40:07:46	21.54	0.192	8.50	39.0
1993 TT22	23:11:35	-0:36:28	17.70	0.662	7.25	12.6
2000 QN20	23:16:06	-3:32:21	17.60	0.649	7.25	11.6



2025-Sep-07

MPC code: 809

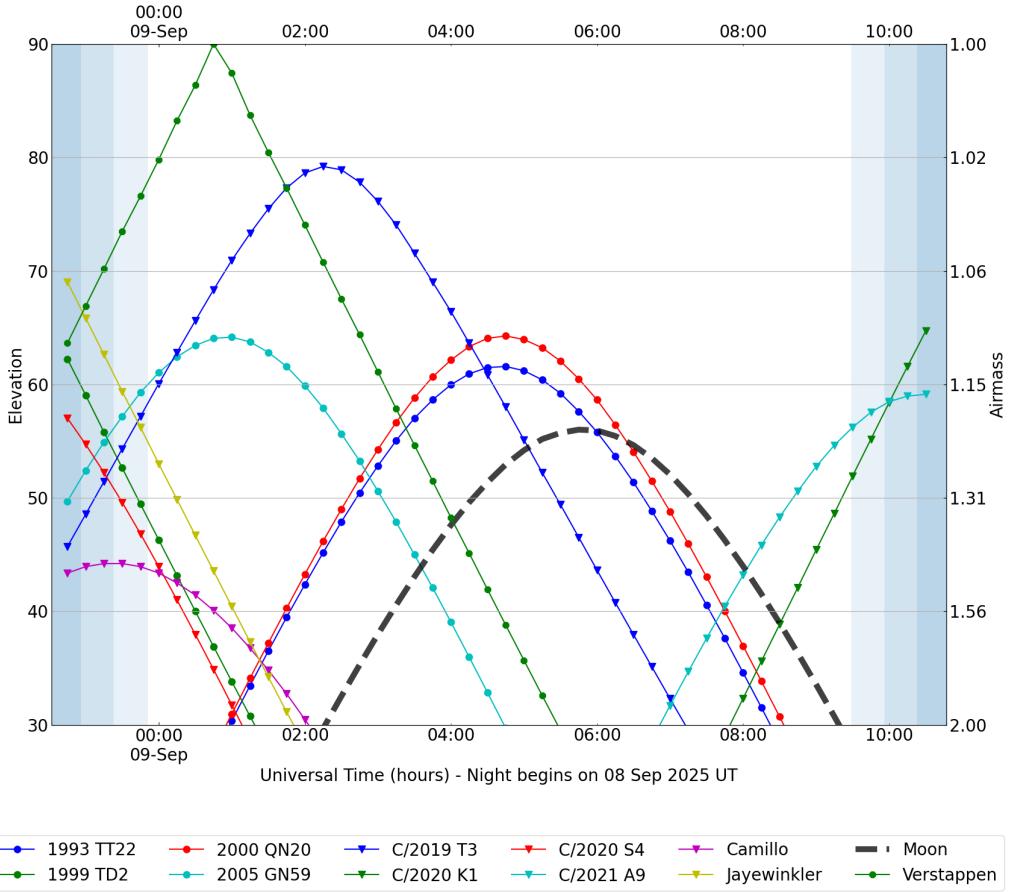
Sunrise-Sunset: 22:32 - 10:48 UT

Twilight-Twilight: 23:50 - 09:30 UT

Night lasts: 12.3 / 9.7 hours.

Lunar Illumination: 1.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:57:51	1:42:59	19.97	0.192	3.50	82.7
C/2020 K1	6:40:48	-18:02:35	18.46	0.142	2.50	106.5
1999 TD2	15:03:12	-30:40:23	20.37	1.027	2.50	118.8
Jayewinkler	15:34:56	-31:00:19	17.81	0.958	3.00	112.3
C/2020 S4	15:48:24	-2:58:09	21.21	0.215	2.25	114.7
Camillo	17:50:18	17:04:04	18.55	1.674	3.25	85.4
Verstappen	19:14:51	-30:16:31	18.22	0.379	6.75	65.7
2005 GN59	19:25:00	-3:14:11	17.70	0.953	6.00	60.6
C/2019 T3	20:46:25	-40:08:57	21.54	0.189	8.50	52.2
1993 TT22	23:10:46	-0:45:51	17.68	0.664	7.00	4.7
2000 QN20	23:15:06	-3:34:12	17.56	0.650	7.25	3.3



2025-Sep-08

MPC code: 809

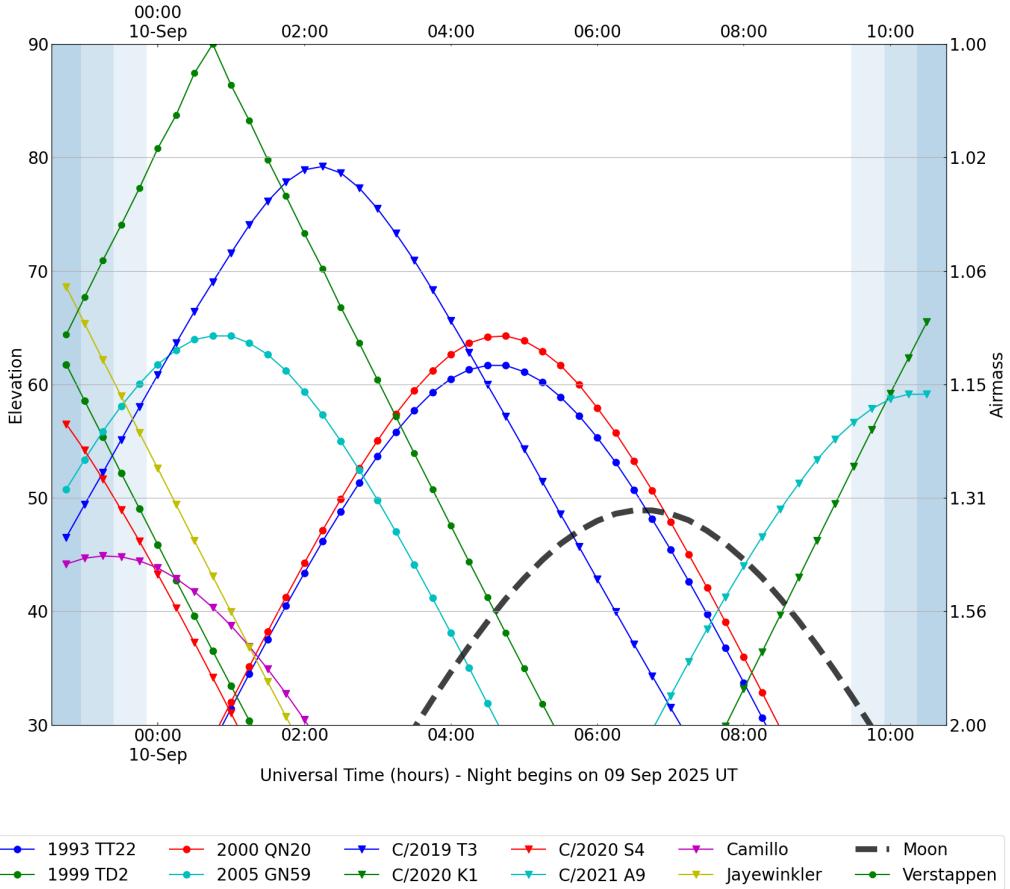
Sunrise-Sunset: 22:32 - 10:47 UT

Twilight-Twilight: 23:51 - 09:29 UT

Night lasts: 12.3 / 9.6 hours.

Lunar Illumination: 0.97

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:57:38	1:39:36	19.97	0.196	3.50	69.5
C/2020 K1	6:40:58	-18:04:54	18.46	0.140	2.50	96.5
1999 TD2	15:05:00	-30:48:34	20.38	1.033	2.50	132.9
Jayewinkler	15:36:43	-31:00:03	17.82	0.964	3.00	126.5
C/2020 S4	15:48:41	-3:01:16	21.22	0.218	2.25	127.8
Camillo	17:51:00	16:25:22	18.56	1.668	3.25	95.5
Verstappen	19:15:23	-30:10:23	18.24	0.394	6.50	80.2
2005 GN59	19:23:45	-3:25:16	17.71	0.922	5.75	74.2
C/2019 T3	20:46:02	-40:10:05	21.54	0.186	8.25	66.0
1993 TT22	23:09:56	-0:55:17	17.66	0.665	7.25	18.1
2000 QN20	23:14:06	-3:36:04	17.52	0.650	7.50	18.1



2025-Sep-09

MPC code: 809

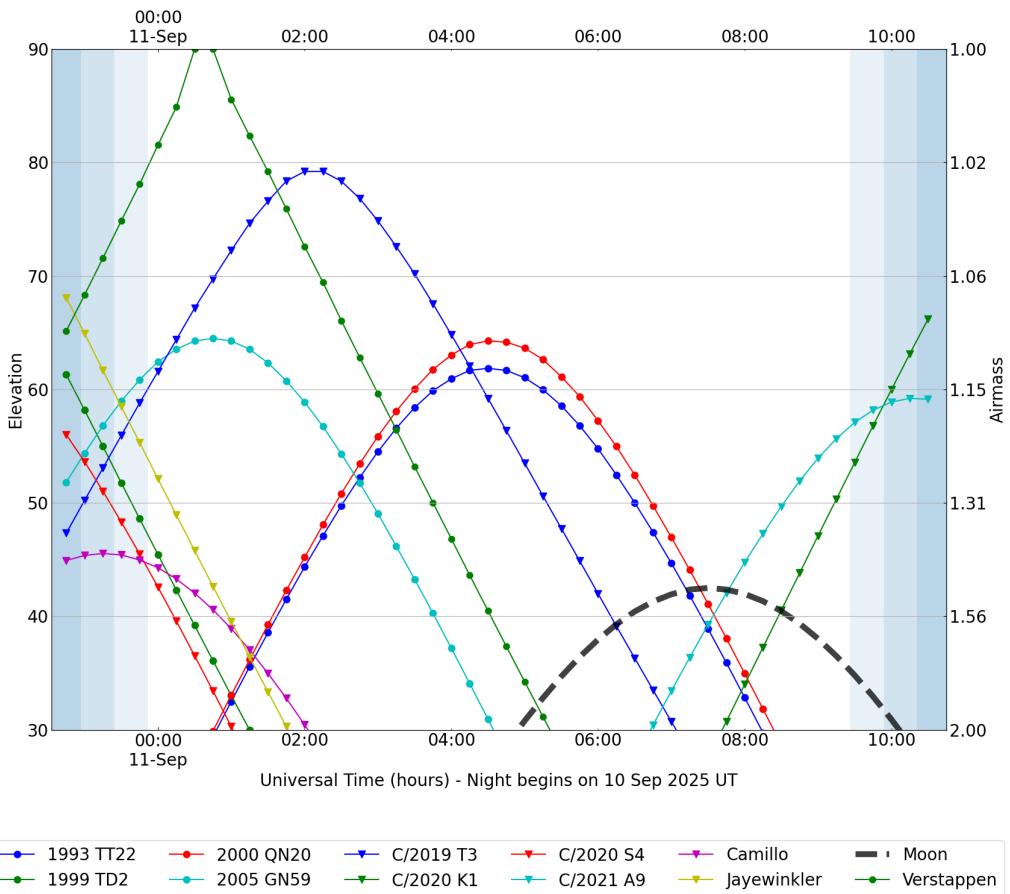
Sunrise-Sunset: 22:33 - 10:46 UT

Twilight-Twilight: 23:51 - 09:28 UT

Night lasts: 12.2 / 9.6 hours.

Lunar Illumination: 0.92

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:57:25	1:36:13	19.96	0.201	3.50	56.7
C/2020 K1	6:41:08	-18:07:14	18.46	0.137	2.50	86.2
1999 TD2	15:06:49	-30:56:43	20.39	1.038	2.50	146.9
Jayewinkler	15:38:31	-30:59:48	17.83	0.970	3.00	140.9
C/2020 S4	15:48:58	-3:04:22	21.23	0.221	2.25	140.4
Camillo	17:51:43	15:46:57	18.57	1.661	3.25	105.8
Verstappen	19:15:58	-30:04:12	18.26	0.408	6.50	94.8
2005 GN59	19:22:34	-3:36:29	17.72	0.891	5.75	88.2
C/2019 T3	20:45:40	-40:11:10	21.55	0.183	8.25	80.0
1993 TT22	23:09:07	-1:04:46	17.65	0.665	7.25	33.0
2000 QN20	23:13:06	-3:37:57	17.48	0.650	7.25	33.2



2025-Sep-10

MPC code: 809

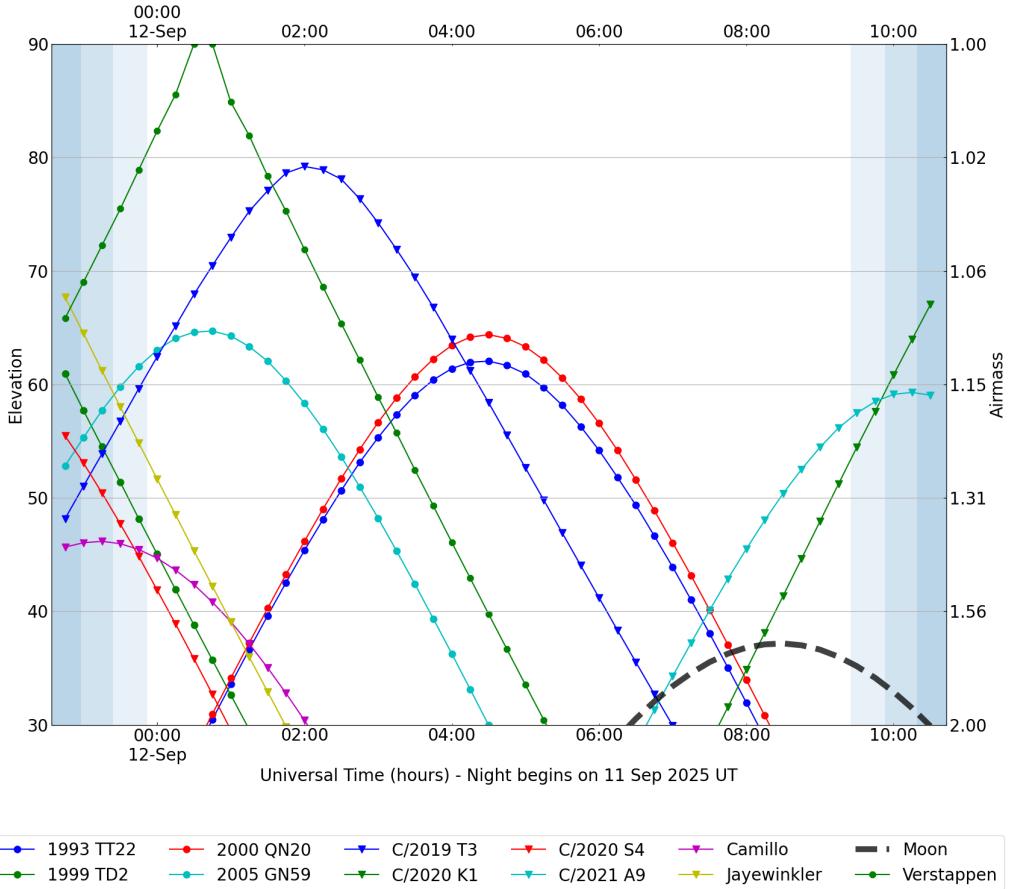
Sunrise-Sunset: 22:33 - 10:45 UT

Twilight-Twilight: 23:52 - 09:26 UT

Night lasts: 12.2 / 9.6 hours.

Lunar Illumination: 0.84

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:57:11	1:32:48	19.96	0.205	3.75	44.7
C/2020 K1	6:41:17	-18:09:36	18.46	0.135	2.75	76.2
1999 TD2	15:08:39	-31:04:50	20.39	1.044	2.25	160.6
Jayewinkler	15:40:19	-30:59:34	17.83	0.977	3.00	154.9
C/2020 S4	15:49:15	-3:07:28	21.24	0.224	2.25	151.2
Camillo	17:52:28	15:08:49	18.58	1.654	3.25	115.7
Verstappen	19:16:34	-29:57:59	18.28	0.423	6.50	109.3
2005 GN59	19:21:27	-3:47:50	17.73	0.860	5.75	102.0
C/2019 T3	20:45:18	-40:12:13	21.55	0.180	8.25	94.2
1993 TT22	23:08:17	-1:14:17	17.65	0.664	7.00	47.8
2000 QN20	23:12:07	-3:39:51	17.50	0.648	7.25	48.1



2025-Sep-11

MPC code: 809

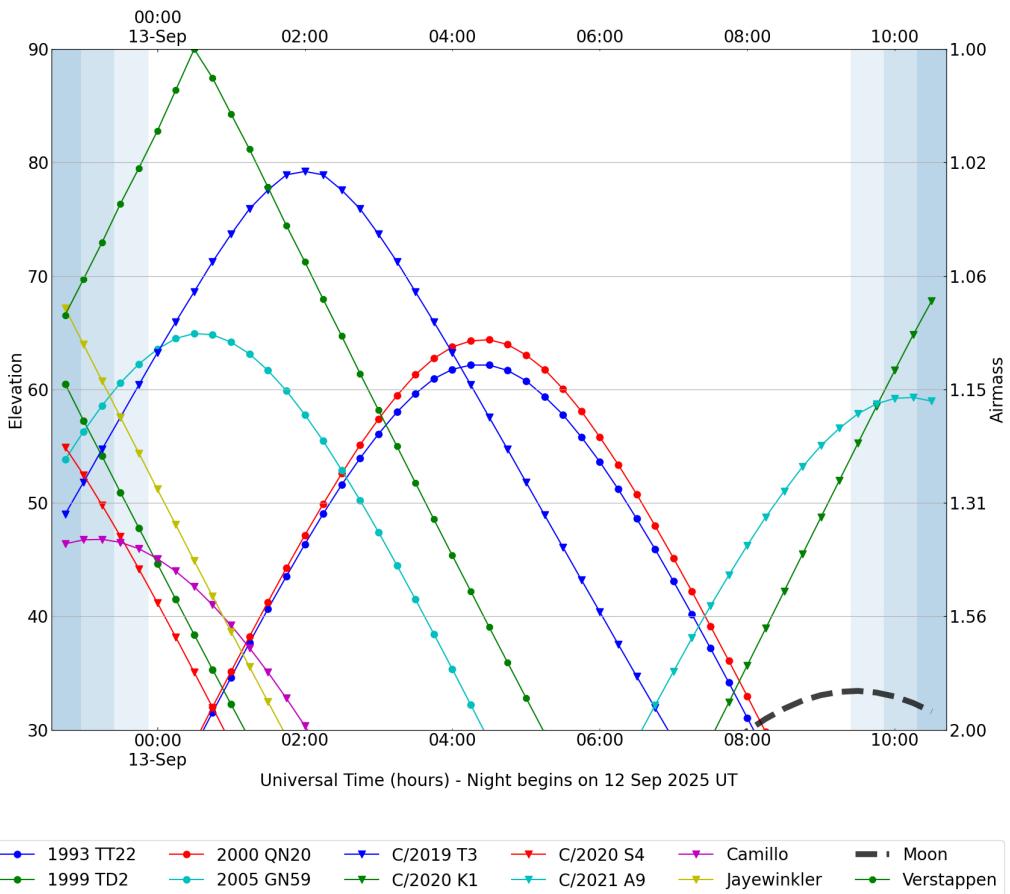
Sunrise-Sunset: 22:34 - 10:43 UT

Twilight-Twilight: 23:52 - 09:25 UT

Night lasts: 12.2 / 9.6 hours.

Lunar Illumination: 0.74

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:56:57	1:29:22	19.96	0.209	3.75	34.3
C/2020 K1	6:41:25	-18:12:00	18.46	0.133	2.75	66.8
1999 TD2	15:10:29	-31:12:54	20.40	1.050	2.25	171.4
Jayewinkler	15:42:08	-30:59:20	17.84	0.983	2.75	168.4
C/2020 S4	15:49:33	-3:10:34	21.24	0.226	2.00	157.7
Camillo	17:53:15	14:30:58	18.59	1.647	3.25	124.6
Verstappen	19:17:13	-29:51:44	18.30	0.438	6.50	123.8
2005 GN59	19:20:24	-3:59:17	17.73	0.829	5.50	115.8
C/2019 T3	20:44:56	-40:13:12	21.56	0.177	8.00	108.2
1993 TT22	23:07:28	-1:23:49	17.67	0.662	7.25	62.7
2000 QN20	23:11:07	-3:41:46	17.55	0.645	7.50	63.0



2025-Sep-12

MPC code: 809

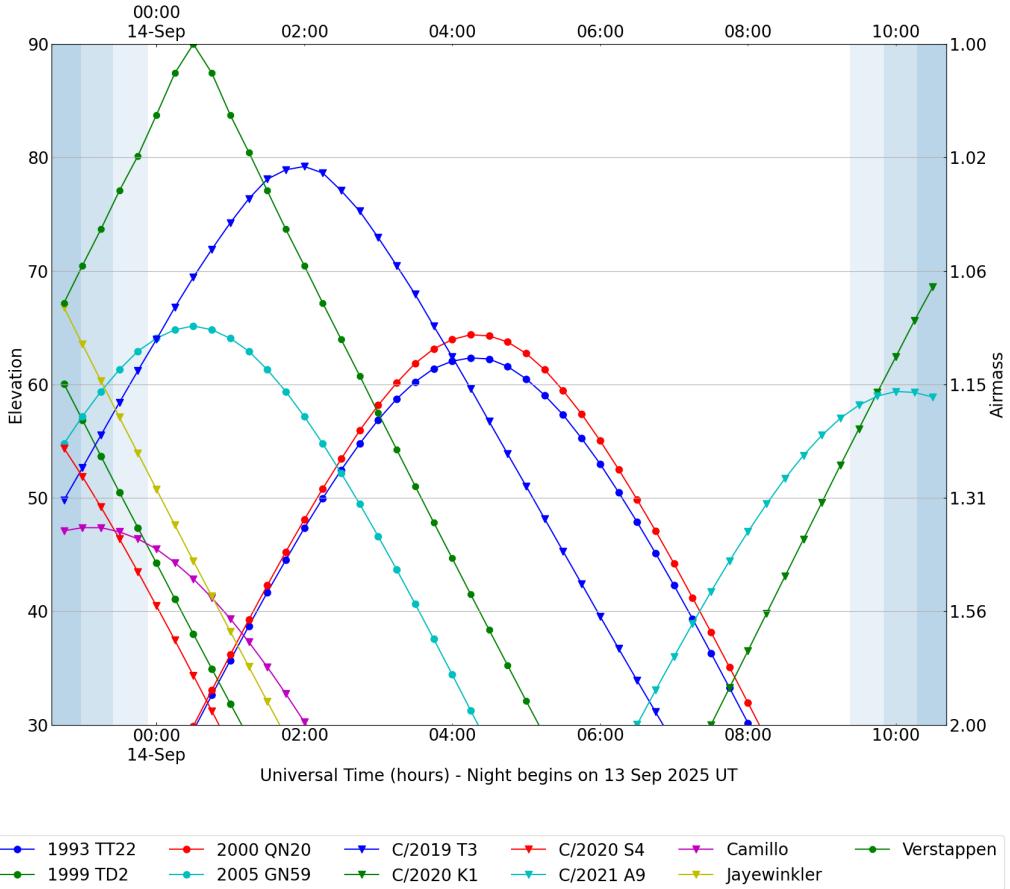
Sunrise-Sunset: 22:34 - 10:42 UT

Twilight-Twilight: 23:53 - 09:24 UT

Night lasts: 12.1 / 9.5 hours.

Lunar Illumination: 0.63

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:56:42	1:25:55	19.96	0.214	3.75	27.8
C/2020 K1	6:41:34	-18:14:24	18.46	0.130	2.75	58.5
1999 TD2	15:12:21	-31:20:57	20.40	1.055	2.25	167.1
Jayewinkler	15:43:58	-30:59:07	17.84	0.988	2.75	173.3
C/2020 S4	15:49:51	-3:13:40	21.25	0.229	2.00	156.4
Camillo	17:54:04	13:53:26	18.60	1.640	3.25	131.9
Verstappen	19:17:53	-29:45:26	18.33	0.452	6.25	138.0
2005 GN59	19:19:24	-4:10:51	17.74	0.799	5.50	128.9
C/2019 T3	20:44:35	-40:14:09	21.56	0.174	8.00	121.8
1993 TT22	23:06:40	-1:33:22	17.69	0.659	7.25	77.3
2000 QN20	23:10:08	-3:43:40	17.59	0.641	7.25	77.5



2025-Sep-13

MPC code: 809

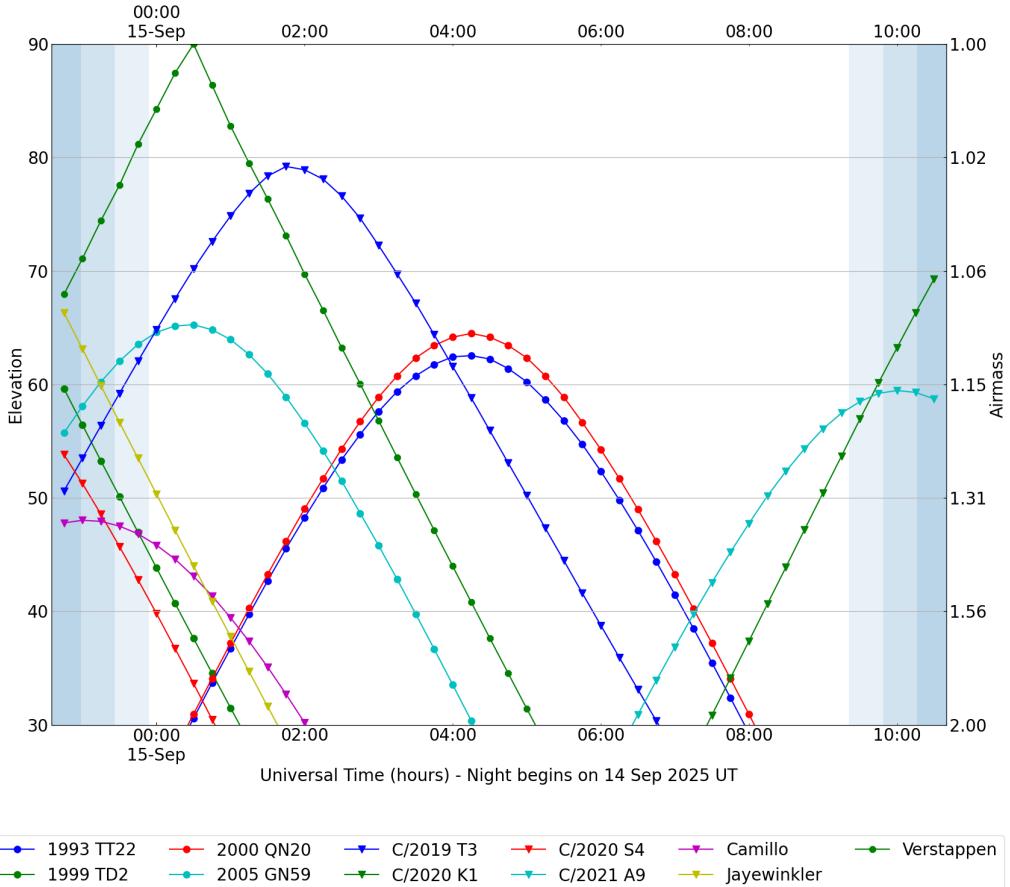
Sunrise-Sunset: 22:35 - 10:41 UT

Twilight-Twilight: 23:53 - 09:23 UT

Night lasts: 12.1 / 9.5 hours.

Lunar Illumination: 0.52

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:56:26	1:22:26	19.95	0.219	4.00	27.4
C/2020 K1	6:41:41	-18:16:51	18.46	0.128	3.00	51.9
1999 TD2	15:14:13	-31:28:57	20.41	1.061	2.25	154.9
Jayewinkler	15:45:48	-30:58:54	17.85	0.994	2.75	161.6
C/2020 S4	15:50:09	-3:16:45	21.26	0.232	2.00	148.4
Camillo	17:54:54	13:16:13	18.61	1.633	3.25	136.7
2005 GN59	19:18:28	-4:22:31	17.75	0.769	5.50	141.1
Verstappen	19:18:35	-29:39:07	18.35	0.467	6.25	151.9
C/2019 T3	20:44:14	-40:15:03	21.57	0.171	8.00	134.9
1993 TT22	23:05:52	-1:42:54	17.72	0.655	7.25	91.7
2000 QN20	23:09:09	-3:45:34	17.64	0.637	7.25	91.9



2025-Sep-14

MPC code: 809

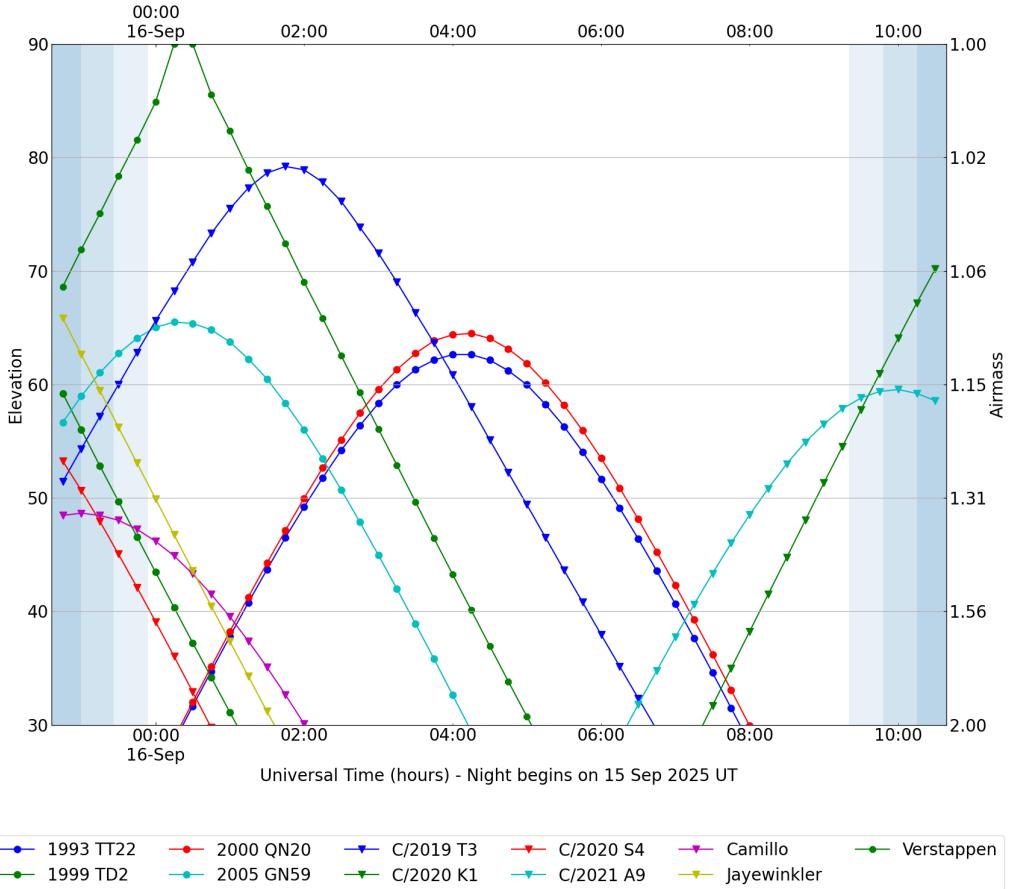
Sunrise-Sunset: 22:35 - 10:40 UT

Twilight-Twilight: 23:54 - 09:21 UT

Night lasts: 12.1 / 9.5 hours.

Lunar Illumination: 0.41

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:56:10	1:18:57	19.95	0.223	4.00	33.1
C/2020 K1	6:41:49	-18:19:19	18.46	0.126	3.00	47.7
1999 TD2	15:16:06	-31:36:54	20.41	1.066	2.25	141.9
Jayewinkler	15:47:39	-30:58:42	17.86	1.000	2.75	148.6
C/2020 S4	15:50:28	-3:19:50	21.27	0.235	2.00	137.6
Camillo	17:55:46	12:39:19	18.62	1.626	3.25	138.2
2005 GN59	19:17:35	-4:34:16	17.75	0.740	5.50	151.2
Verstappen	19:19:19	-29:32:45	18.37	0.482	6.25	165.5
C/2019 T3	20:43:54	-40:15:55	21.57	0.167	8.00	147.2
1993 TT22	23:05:04	-1:52:26	17.76	0.651	7.25	105.8
2000 QN20	23:08:11	-3:47:28	17.69	0.631	7.50	106.0



2025-Sep-15

MPC code: 809

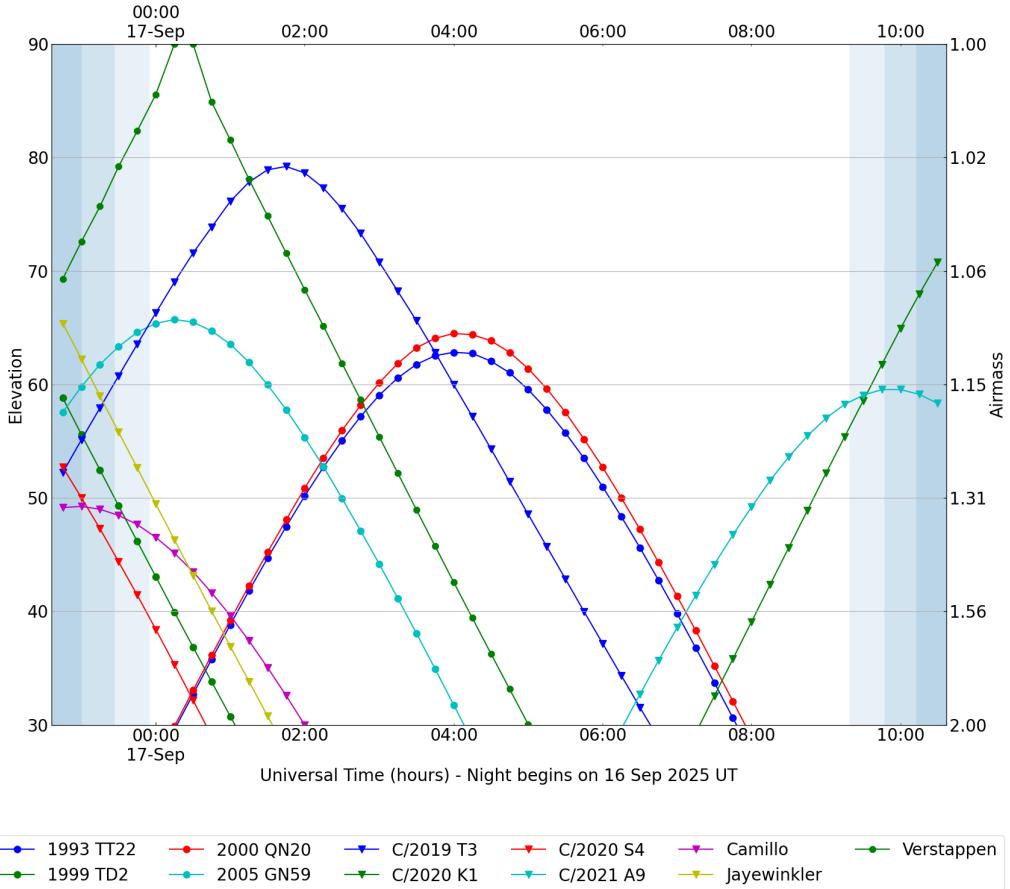
Sunrise-Sunset: 22:36 - 10:39 UT

Twilight-Twilight: 23:54 - 09:20 UT

Night lasts: 12.1 / 9.4 hours.

Lunar Illumination: 0.30

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:55:54	1:15:26	19.95	0.228	4.00	42.2
C/2020 K1	6:41:56	-18:21:48	18.46	0.124	3.00	46.4
1999 TD2	15:18:00	-31:44:49	20.42	1.072	2.25	129.1
Jayewinkler	15:49:31	-30:58:30	17.86	1.006	2.75	135.6
C/2020 S4	15:50:46	-3:22:55	21.27	0.237	1.75	125.9
Camillo	17:56:40	12:02:46	18.64	1.618	3.25	136.3
2005 GN59	19:16:47	-4:46:06	17.76	0.711	5.25	157.3
Verstappen	19:20:04	-29:26:22	18.39	0.496	6.25	177.4
C/2019 T3	20:43:34	-40:16:44	21.58	0.164	7.75	157.6
1993 TT22	23:04:16	-2:01:56	17.79	0.645	7.25	119.5
2000 QN20	23:07:13	-3:49:20	17.73	0.624	7.25	119.8



2025-Sep-16

MPC code: 809

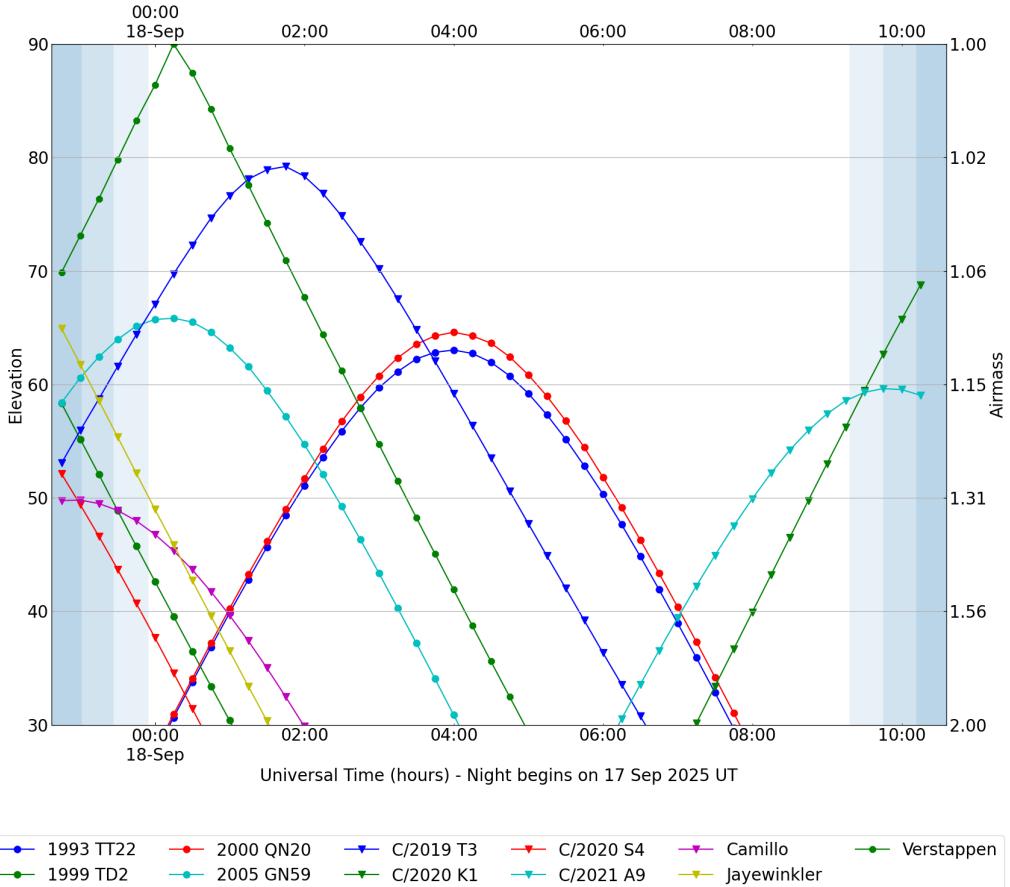
Sunrise-Sunset: 22:36 - 10:37 UT

Twilight-Twilight: 23:55 - 09:19 UT

Night lasts: 12.0 / 9.4 hours.

Lunar Illumination: 0.21

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:55:37	1:11:54	19.95	0.233	4.00	52.8
C/2020 K1	6:42:02	-18:24:18	18.46	0.123	3.00	48.1
1999 TD2	15:19:55	-31:52:41	20.42	1.077	2.25	116.3
C/2020 S4	15:51:06	-3:26:00	21.28	0.240	1.75	113.9
Jayewinkler	15:51:23	-30:58:18	17.87	1.012	2.75	122.7
Camillo	17:57:35	11:26:32	18.65	1.611	3.00	131.4
2005 GN59	19:16:02	-4:58:01	17.77	0.684	5.25	156.4
Verstappen	19:20:52	-29:19:56	18.41	0.511	6.25	167.6
C/2019 T3	20:43:14	-40:17:30	21.58	0.161	7.75	162.8
1993 TT22	23:03:30	-2:11:24	17.83	0.639	7.25	133.1
2000 QN20	23:06:16	-3:51:11	17.77	0.617	7.25	133.3



2025-Sep-17

MPC code: 809

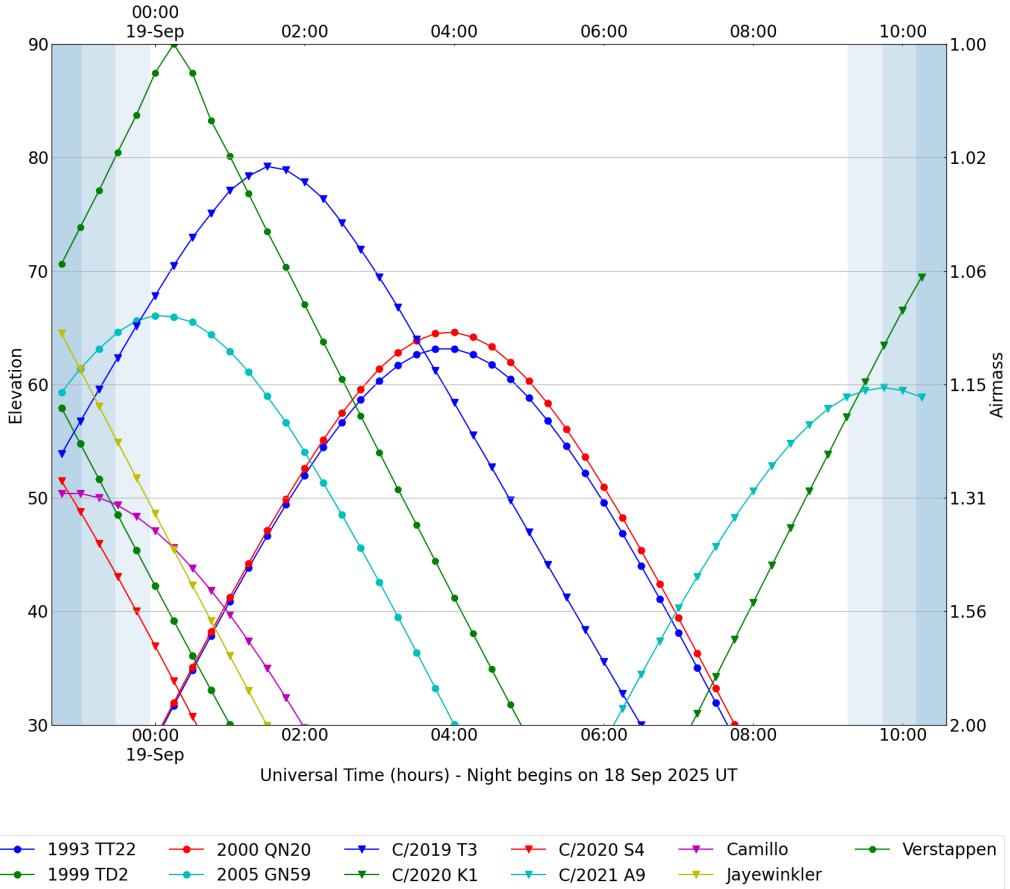
Sunrise-Sunset: 22:37 - 10:36 UT

Twilight-Twilight: 23:55 - 09:18 UT

Night lasts: 12.0 / 9.4 hours.

Lunar Illumination: 0.13

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:55:20	1:08:22	19.95	0.237	4.00	63.9
C/2020 K1	6:42:08	-18:26:48	18.46	0.121	3.00	52.2
1999 TD2	15:21:50	-32:00:29	20.43	1.082	2.25	103.9
C/2020 S4	15:51:25	-3:29:02	21.29	0.243	1.75	102.0
Jayewinkler	15:53:15	-30:58:06	17.87	1.017	2.75	110.2
Camillo	17:58:31	10:50:50	18.66	1.603	3.00	124.5
2005 GN59	19:15:22	-5:09:55	17.78	0.659	5.25	149.3
Verstappen	19:21:40	-29:13:30	18.43	0.525	6.00	154.9
C/2019 T3	20:42:54	-40:18:13	21.59	0.158	7.75	159.4
1993 TT22	23:02:44	-2:20:47	17.86	0.632	7.25	146.2
2000 QN20	23:05:20	-3:52:59	17.81	0.608	7.50	146.5



2025-Sep-18

MPC code: 809

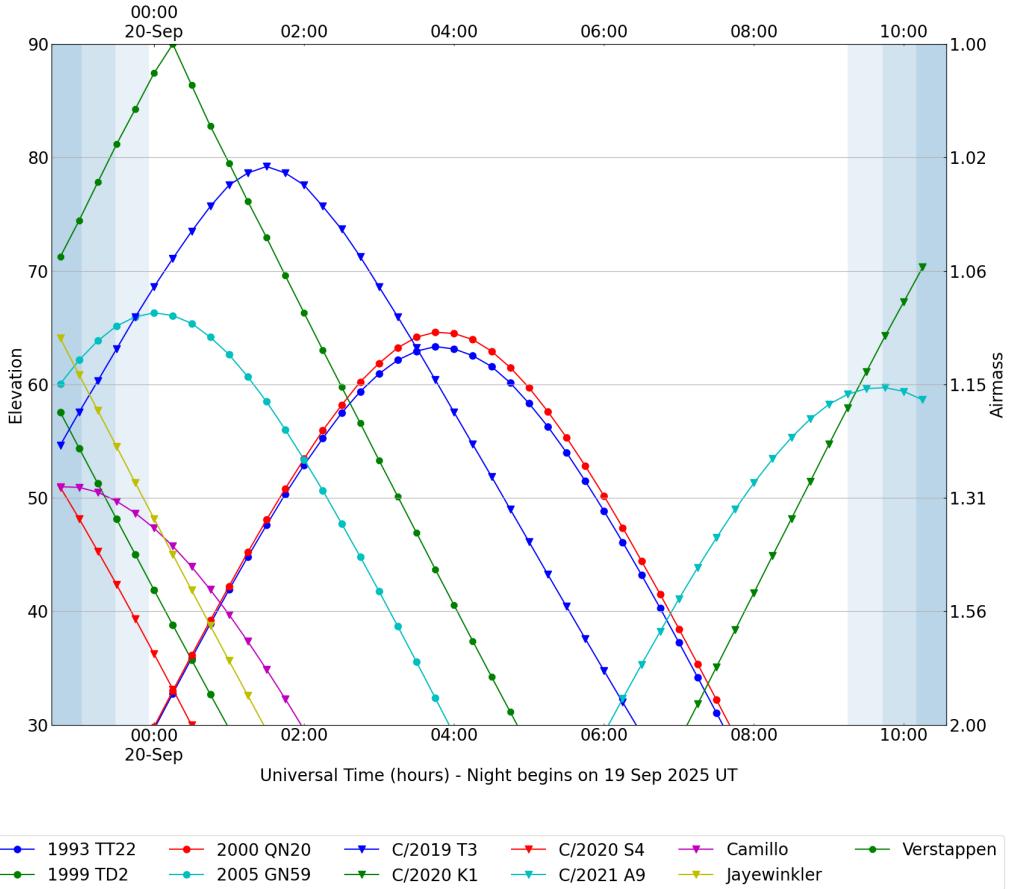
Sunrise-Sunset: 22:37 - 10:35 UT

Twilight-Twilight: 23:56 - 09:16 UT

Night lasts: 12.0 / 9.3 hours.

Lunar Illumination: 0.07

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:55:02	1:04:49	19.94	0.242	4.00	75.3
C/2020 K1	6:42:13	-18:29:21	18.46	0.119	3.00	58.2
1999 TD2	15:23:47	-32:08:15	20.43	1.087	2.25	91.6
C/2020 S4	15:51:45	-3:32:06	21.29	0.245	1.75	90.1
Jayewinkler	15:55:09	-30:57:54	17.88	1.022	2.50	97.8
Camillo	17:59:29	10:15:18	18.67	1.595	3.00	116.3
2005 GN59	19:14:45	-5:21:57	17.78	0.634	5.25	139.4
Verstappen	19:22:31	-29:07:00	18.45	0.539	6.00	142.3
C/2019 T3	20:42:35	-40:18:54	21.59	0.154	7.50	150.4
1993 TT22	23:01:59	-2:30:09	17.90	0.623	7.25	159.2
2000 QN20	23:04:25	-3:54:45	17.85	0.599	7.50	159.5



2025-Sep-19

MPC code: 809

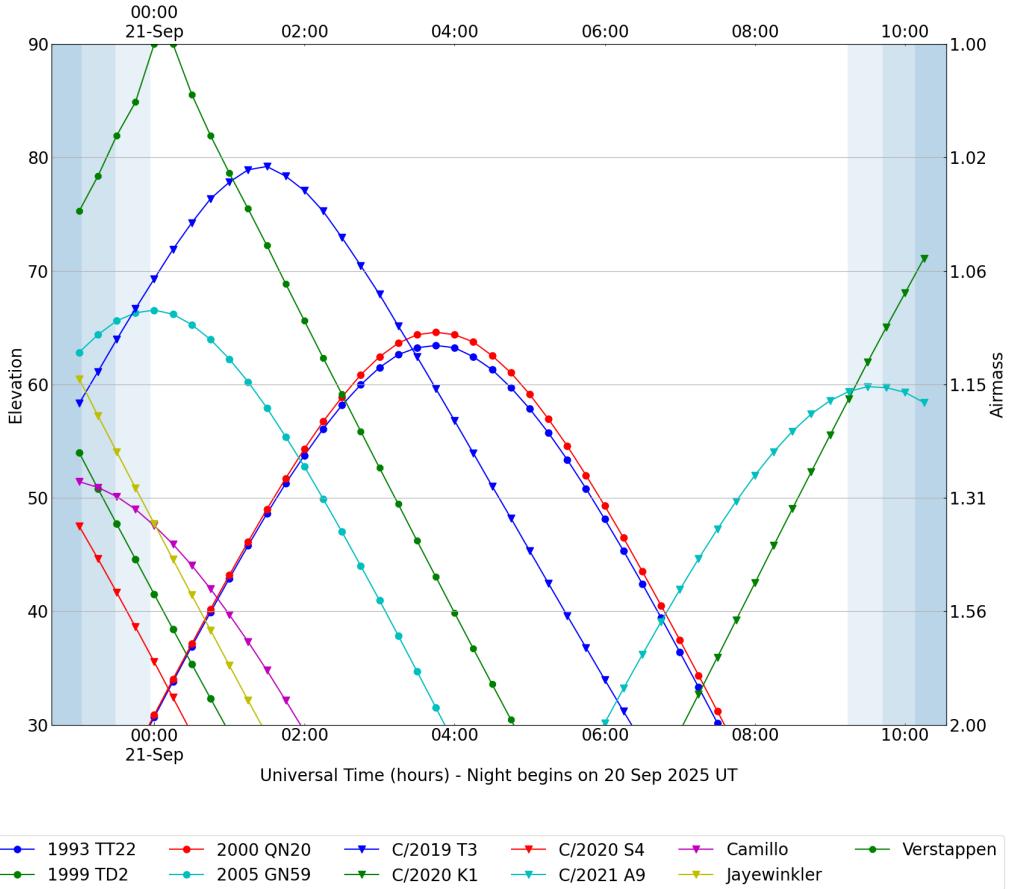
Sunrise-Sunset: 22:38 - 10:34 UT

Twilight-Twilight: 23:56 - 09:15 UT

Night lasts: 11.9 / 9.3 hours.

Lunar Illumination: 0.03

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:54:43	1:01:14	19.94	0.247	4.00	86.6
C/2020 K1	6:42:18	-18:31:54	18.46	0.118	3.00	65.4
1999 TD2	15:25:44	-32:16:00	20.44	1.093	2.00	79.5
C/2020 S4	15:52:05	-3:35:09	21.30	0.248	1.50	78.4
Jayewinkler	15:57:03	-30:57:41	17.88	1.028	2.50	85.6
Camillo	18:00:29	9:40:07	18.68	1.587	3.00	107.4
2005 GN59	19:14:11	-5:34:02	17.79	0.611	5.00	128.5
Verstappen	19:23:24	-29:00:28	18.46	0.554	6.00	129.8
C/2019 T3	20:42:17	-40:19:33	21.60	0.151	7.50	139.5
1993 TT22	23:01:14	-2:39:26	17.93	0.614	7.25	171.5
2000 QN20	23:03:31	-3:56:28	17.88	0.588	7.25	172.1



2025-Sep-20

MPC code: 809

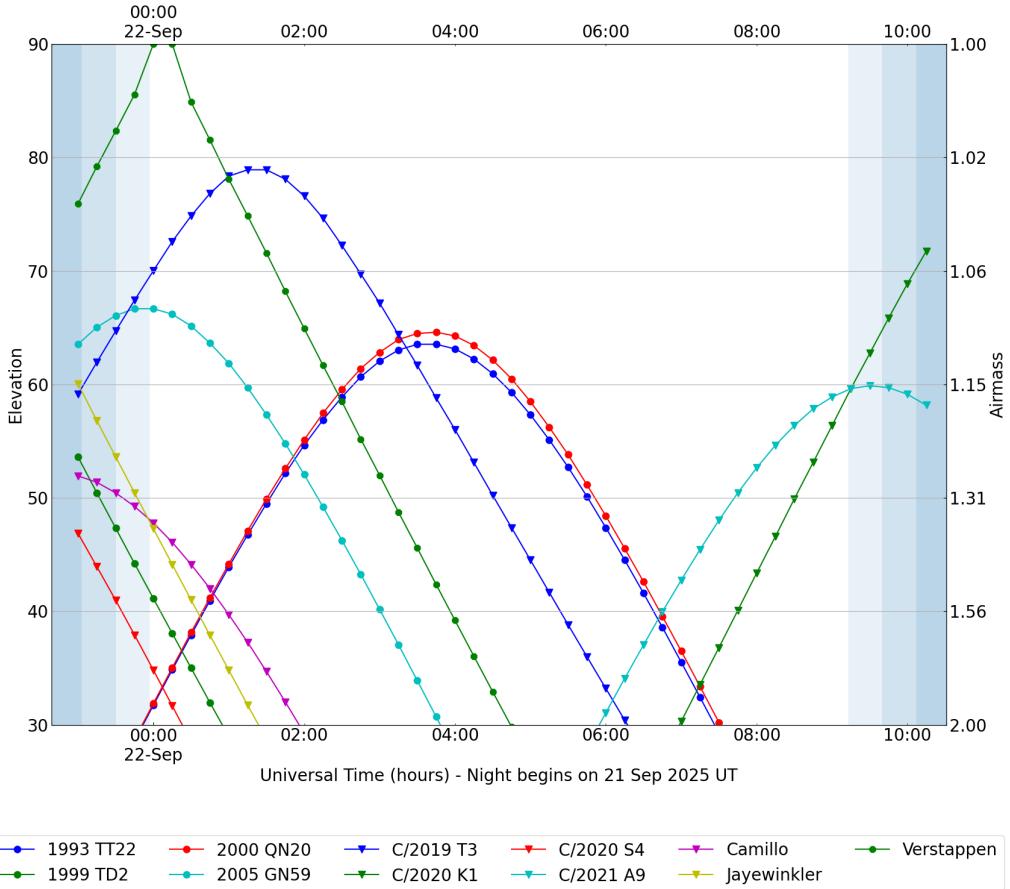
Sunrise-Sunset: 22:38 - 10:33 UT

Twilight-Twilight: 23:57 - 09:14 UT

Night lasts: 11.9 / 9.3 hours.

Lunar Illumination: 0.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:54:24	0:57:37	19.94	0.252	4.25	97.9
C/2020 K1	6:42:22	-18:34:29	18.46	0.116	3.00	73.3
1999 TD2	15:27:43	-32:23:42	20.44	1.098	1.75	67.6
C/2020 S4	15:52:26	-3:38:13	21.31	0.251	1.25	66.9
Jayewinkler	15:58:58	-30:57:28	17.89	1.034	2.25	73.5
Camillo	18:01:30	9:05:08	18.69	1.579	2.75	98.0
2005 GN59	19:13:42	-5:46:13	17.80	0.587	4.75	117.1
Verstappen	19:24:18	-28:53:51	18.48	0.569	5.75	117.5
C/2019 T3	20:41:58	-40:20:09	21.60	0.148	7.25	128.1
1993 TT22	23:00:31	-2:48:42	17.96	0.604	7.50	173.5
2000 QN20	23:02:37	-3:58:08	17.92	0.577	7.50	174.1



2025-Sep-21

MPC code: 809

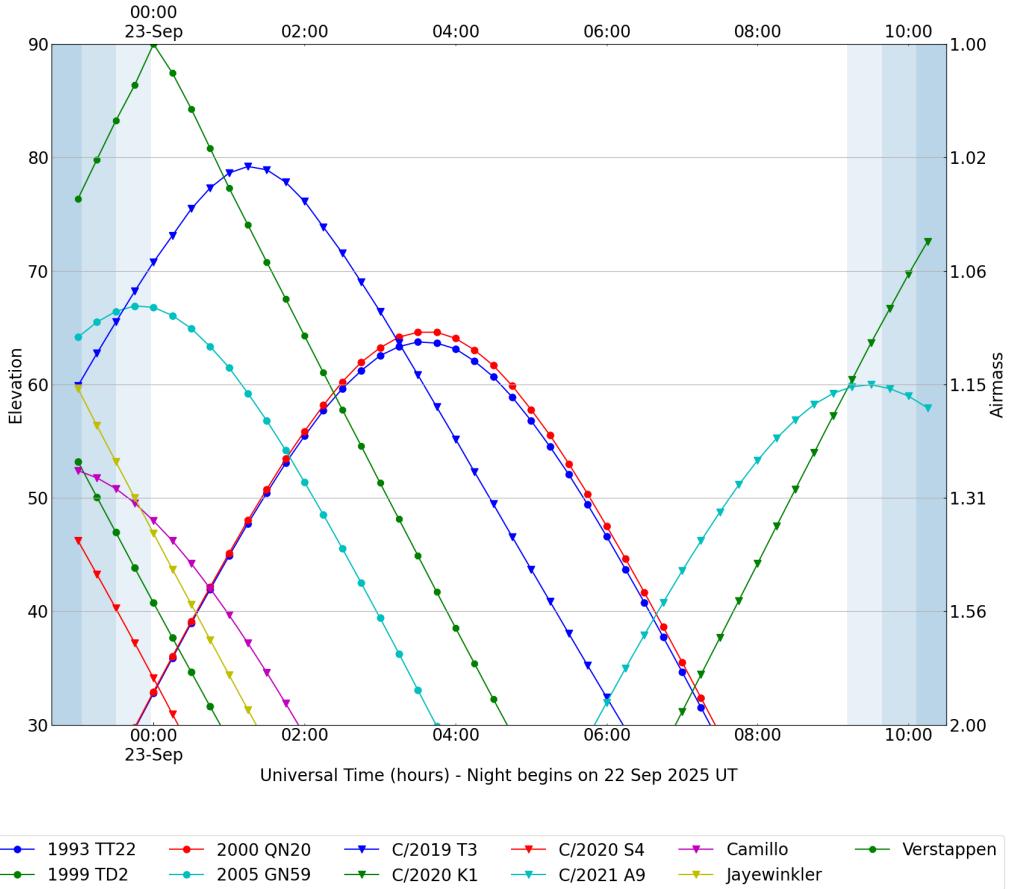
Sunrise-Sunset: 22:39 - 10:31 UT

Twilight-Twilight: 23:57 - 09:13 UT

Night lasts: 11.9 / 9.3 hours.

Lunar Illumination: 0.00

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:54:04	0:54:01	19.94	0.256	4.25	108.8
C/2020 K1	6:42:26	-18:37:04	18.47	0.115	3.25	81.5
1999 TD2	15:29:43	-32:31:20	20.45	1.103	1.75	56.0
C/2020 S4	15:52:47	-3:41:15	21.31	0.253	1.25	55.8
Jayewinkler	16:00:53	-30:57:14	17.89	1.039	2.25	61.7
Camillo	18:02:33	8:30:41	18.70	1.572	2.75	88.6
2005 GN59	19:13:16	-5:58:23	17.80	0.568	4.75	105.7
Verstappen	19:25:14	-28:47:14	18.50	0.583	5.50	105.5
C/2019 T3	20:41:40	-40:20:42	21.61	0.144	7.25	116.5
1993 TT22	22:59:48	-2:57:49	18.00	0.594	7.25	161.9
2000 QN20	23:01:45	-3:59:44	17.96	0.565	7.50	162.1



2025-Sep-22

MPC code: 809

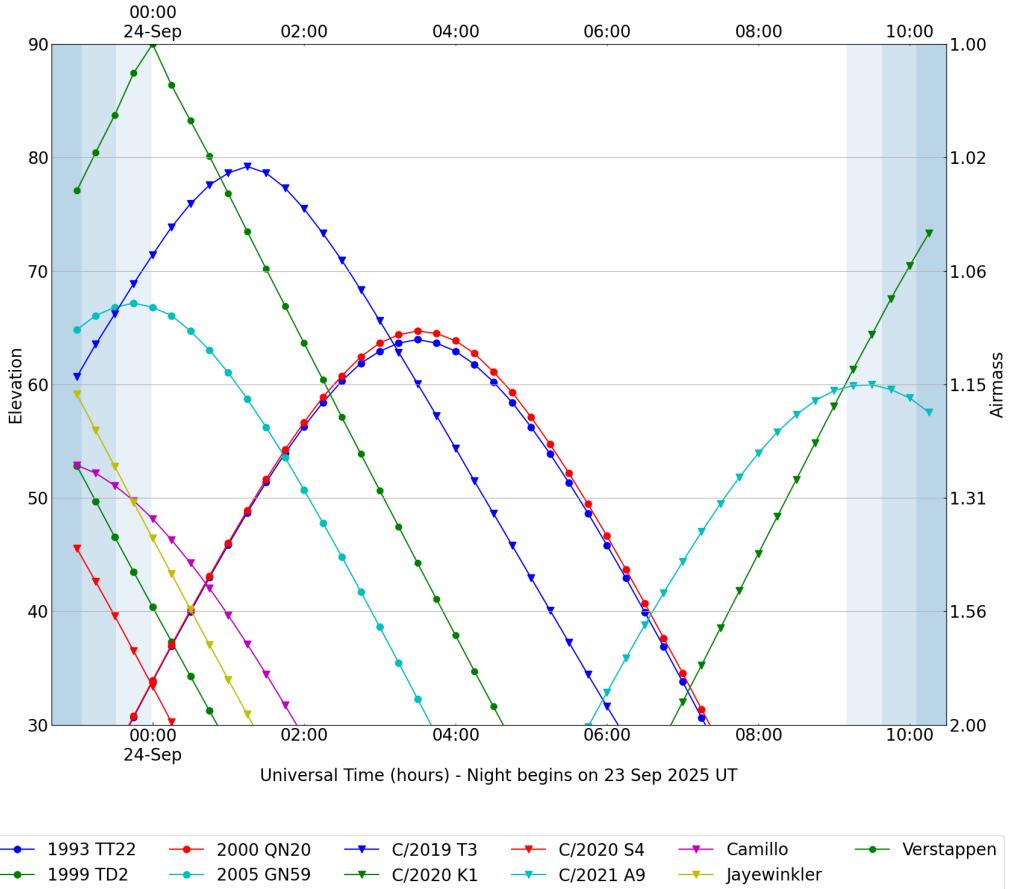
Sunrise-Sunset: 22:39 - 10:30 UT

Twilight-Twilight: 23:58 - 09:11 UT

Night lasts: 11.8 / 9.2 hours.

Lunar Illumination: 0.02

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:53:44	0:50:24	19.93	0.261	4.25	119.5
C/2020 K1	6:42:30	-18:39:40	18.47	0.114	3.25	89.8
1999 TD2	15:31:42	-32:38:54	20.45	1.108	1.75	44.5
C/2020 S4	15:53:08	-3:44:16	21.32	0.256	1.25	45.2
Jayewinkler	16:02:49	-30:57:00	17.90	1.044	2.25	50.0
Camillo	18:03:36	7:56:37	18.72	1.564	2.75	79.2
2005 GN59	19:12:55	-6:10:34	17.81	0.551	4.50	94.2
Verstappen	19:26:11	-28:40:36	18.52	0.597	5.50	93.7
C/2019 T3	20:41:23	-40:21:13	21.61	0.141	7.00	105.0
1993 TT22	22:59:07	-3:06:50	18.03	0.582	7.25	149.8
2000 QN20	23:00:54	-4:01:16	17.99	0.552	7.25	149.8



2025-Sep-23

MPC code: 809

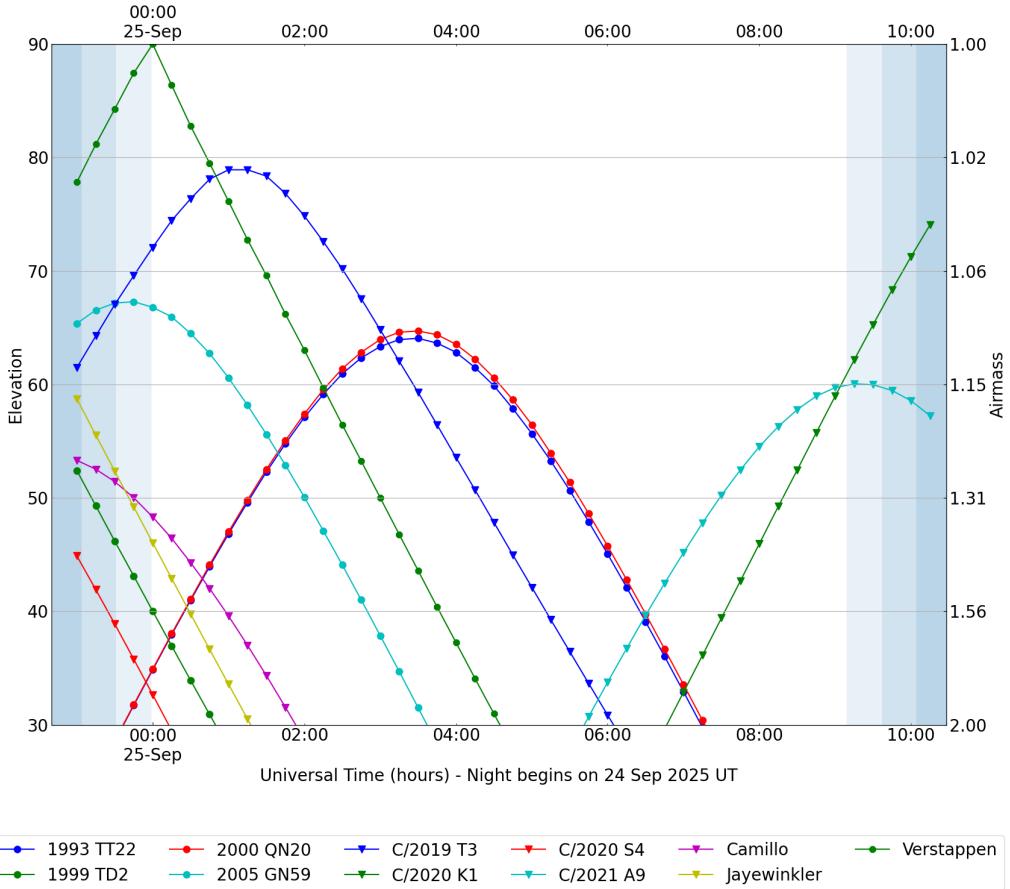
Sunrise-Sunset: 22:40 - 10:29 UT

Twilight-Twilight: 23:59 - 09:10 UT

Night lasts: 11.8 / 9.2 hours.

Lunar Illumination: 0.05

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:53:24	0:46:46	19.93	0.266	4.25	129.6
C/2020 K1	6:42:33	-18:42:16	18.47	0.113	3.25	98.0
1999 TD2	15:33:43	-32:46:25	20.45	1.113	1.75	33.3
C/2020 S4	15:53:29	-3:47:17	21.33	0.258	1.25	35.2
Jayewinkler	16:04:46	-30:56:44	17.90	1.049	2.25	38.6
Camillo	18:04:42	7:22:55	18.73	1.556	2.75	69.8
2005 GN59	19:12:37	-6:22:48	17.81	0.536	4.50	83.0
Verstappen	19:27:10	-28:33:55	18.54	0.611	5.50	82.0
C/2019 T3	20:41:05	-40:21:41	21.62	0.137	7.00	93.5
1993 TT22	22:58:27	-3:15:45	18.06	0.570	7.50	137.7
2000 QN20	23:00:04	-4:02:44	18.02	0.538	7.50	137.7



2025-Sep-24

MPC code: 809

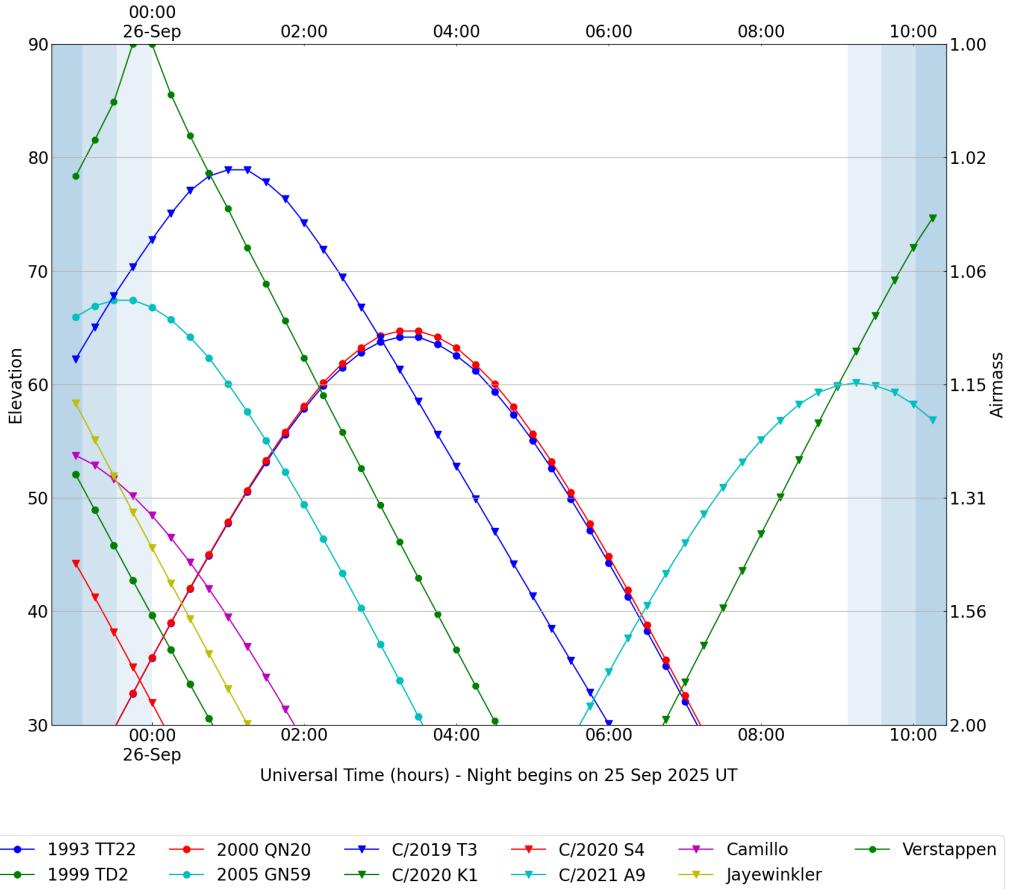
Sunrise-Sunset: 22:40 - 10:28 UT

Twilight-Twilight: 23:59 - 09:09 UT

Night lasts: 11.8 / 9.2 hours.

Lunar Illumination: 0.10

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:53:03	0:43:07	19.93	0.271	4.50	138.9
C/2020 K1	6:42:35	-18:44:53	18.47	0.112	3.25	106.0
1999 TD2	15:35:45	-32:53:52	20.46	1.118	1.75	22.6
C/2020 S4	15:53:51	-3:50:18	21.33	0.260	1.00	26.8
Jayewinkler	16:06:43	-30:56:28	17.91	1.054	2.25	27.4
Camillo	18:05:48	6:49:36	18.74	1.548	2.75	60.8
2005 GN59	19:12:23	-6:35:03	17.82	0.524	4.50	71.8
Verstappen	19:28:11	-28:27:11	18.56	0.625	5.50	70.3
C/2019 T3	20:40:49	-40:22:08	21.62	0.134	7.00	82.2
1993 TT22	22:57:48	-3:24:32	18.10	0.557	7.25	125.7
2000 QN20	22:59:15	-4:04:06	18.06	0.523	7.50	125.7



2025-Sep-25

MPC code: 809

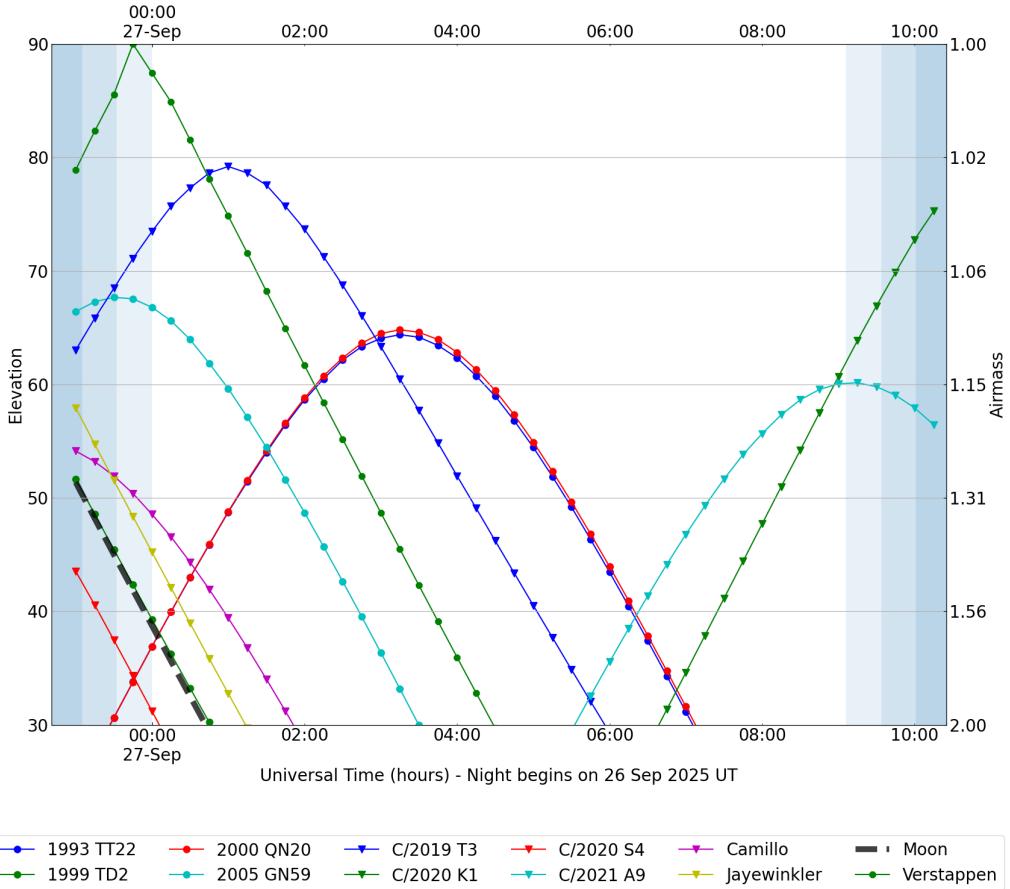
Sunrise-Sunset: 22:41 - 10:26 UT

Twilight-Twilight: 00:00 - 09:08 UT

Night lasts: 11.8 / 9.1 hours.

Lunar Illumination: 0.16

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:52:41	0:39:28	19.93	0.276	4.50	146.7
C/2020 K1	6:42:37	-18:47:31	18.47	0.112	3.50	113.5
1999 TD2	15:37:47	-33:01:16	20.46	1.123	1.75	12.9
C/2020 S4	15:54:13	-3:53:17	21.34	0.263	1.00	21.4
Jayewinkler	16:08:40	-30:56:11	17.91	1.059	2.25	16.3
Camillo	18:06:56	6:16:40	18.75	1.540	2.75	52.2
2005 GN59	19:12:12	-6:47:19	17.82	0.514	4.50	60.8
Verstappen	19:29:12	-28:20:26	18.58	0.638	5.50	58.8
C/2019 T3	20:40:32	-40:22:31	21.63	0.130	7.00	71.0
1993 TT22	22:57:10	-3:33:12	18.13	0.543	7.25	113.8
2000 QN20	22:58:28	-4:05:24	18.09	0.508	7.25	113.8



2025-Sep-26

MPC code: 809

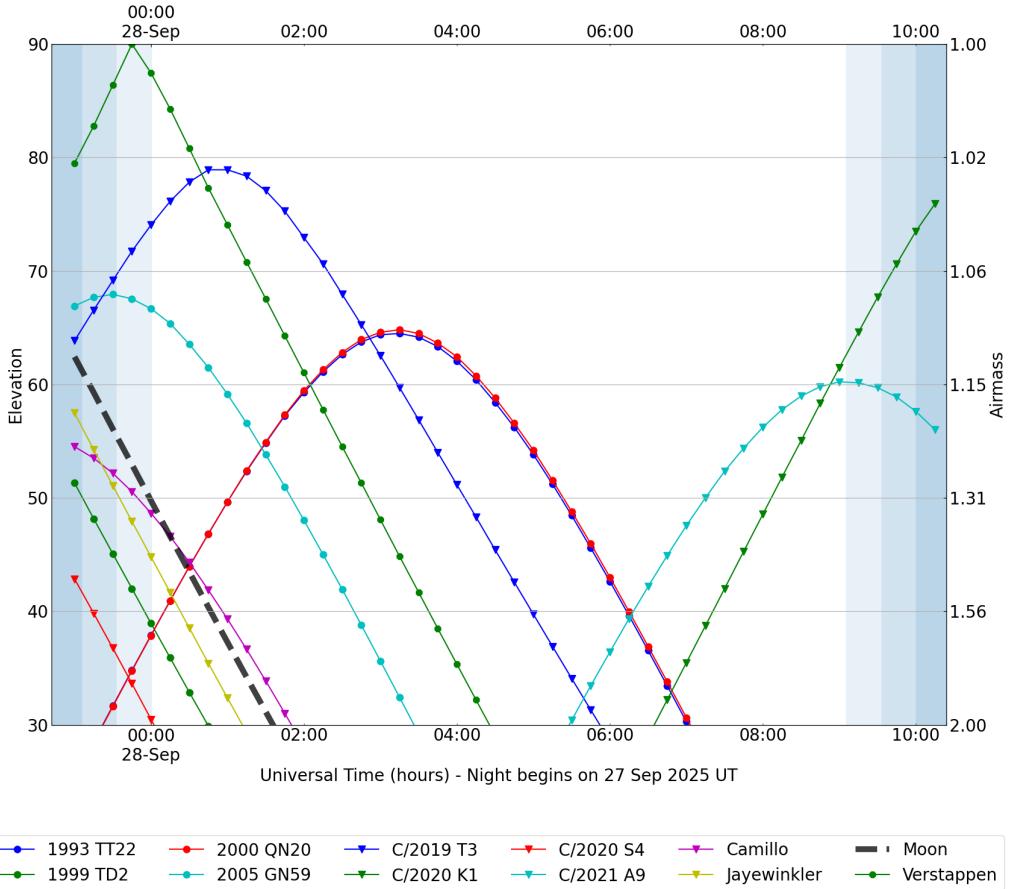
Sunrise-Sunset: 22:41 - 10:25 UT

Twilight-Twilight: 00:00 - 09:06 UT

Night lasts: 11.7 / 9.1 hours.

Lunar Illumination: 0.24

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:52:19	0:35:48	19.93	0.281	4.50	152.1
C/2020 K1	6:42:38	-18:50:09	18.47	0.111	3.50	120.3
1999 TD2	15:39:51	-33:08:36	20.46	1.127	1.75	8.8
C/2020 S4	15:54:35	-3:56:16	21.35	0.265	1.00	21.2
Jayewinkler	16:10:38	-30:55:52	17.91	1.064	2.00	6.5
Camillo	18:08:05	5:44:07	18.76	1.532	2.75	44.3
2005 GN59	19:12:05	-6:59:36	17.83	0.510	4.25	49.9
Verstappen	19:30:16	-28:13:38	18.59	0.651	5.25	47.3
C/2019 T3	20:40:16	-40:22:53	21.63	0.127	6.75	59.8
1993 TT22	22:56:33	-3:41:43	18.16	0.529	7.50	101.8
2000 QN20	22:57:43	-4:06:36	18.13	0.491	7.50	101.9



2025-Sep-27

MPC code: 809

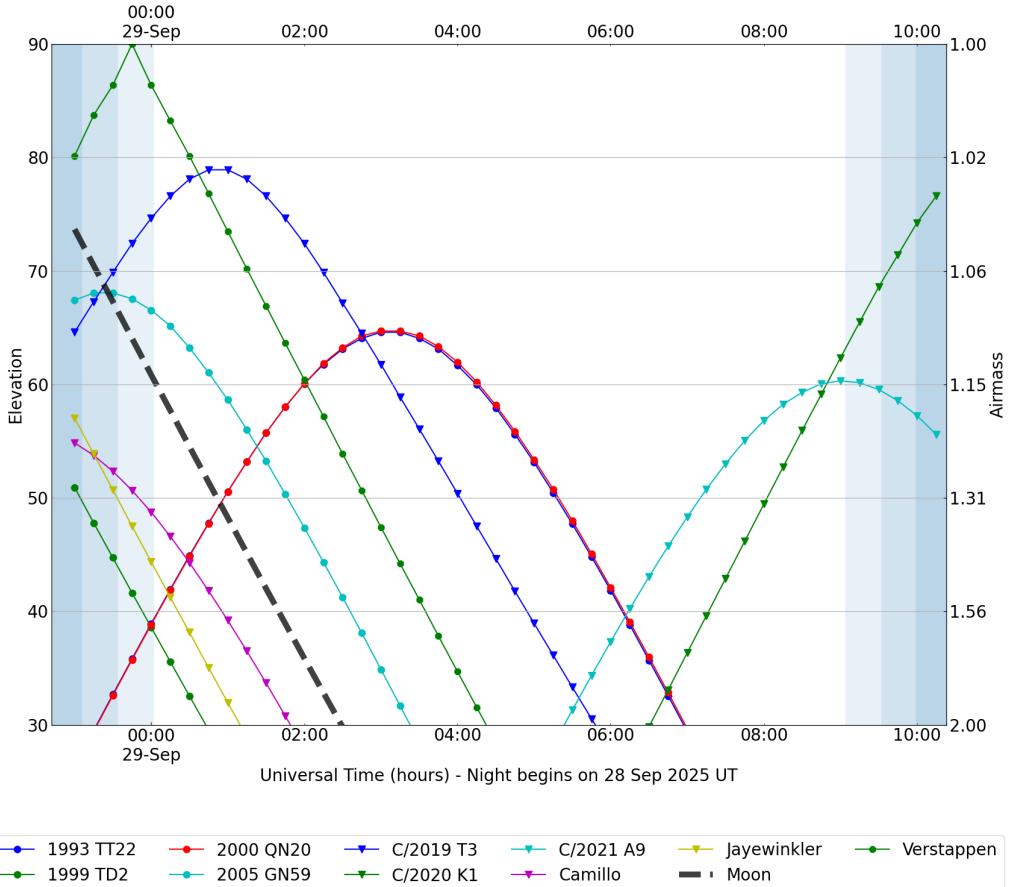
Sunrise-Sunset: 22:42 - 10:24 UT

Twilight-Twilight: 00:01 - 09:05 UT

Night lasts: 11.7 / 9.1 hours.

Lunar Illumination: 0.32

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:51:56	0:32:08	19.92	0.285	4.75	153.2
C/2020 K1	6:42:39	-18:52:47	18.47	0.111	3.50	126.2
1999 TD2	15:41:55	-33:15:52	20.47	1.132	1.50	15.6
C/2020 S4	15:54:57	-3:59:14	21.35	0.267	1.00	26.6
Jayewinkler	16:12:37	-30:55:32	17.92	1.069	2.00	8.7
Camillo	18:09:16	5:11:57	18.77	1.525	2.75	37.8
2005 GN59	19:12:02	-7:11:55	17.83	0.509	4.25	39.4
Verstappen	19:31:21	-28:06:48	18.61	0.665	5.25	35.8
C/2019 T3	20:40:01	-40:23:12	21.64	0.124	6.75	48.8
1993 TT22	22:55:58	-3:50:05	18.19	0.514	7.50	89.8
2000 QN20	22:56:59	-4:07:43	18.16	0.475	7.50	89.9



2025-Sep-28

MPC code: 809

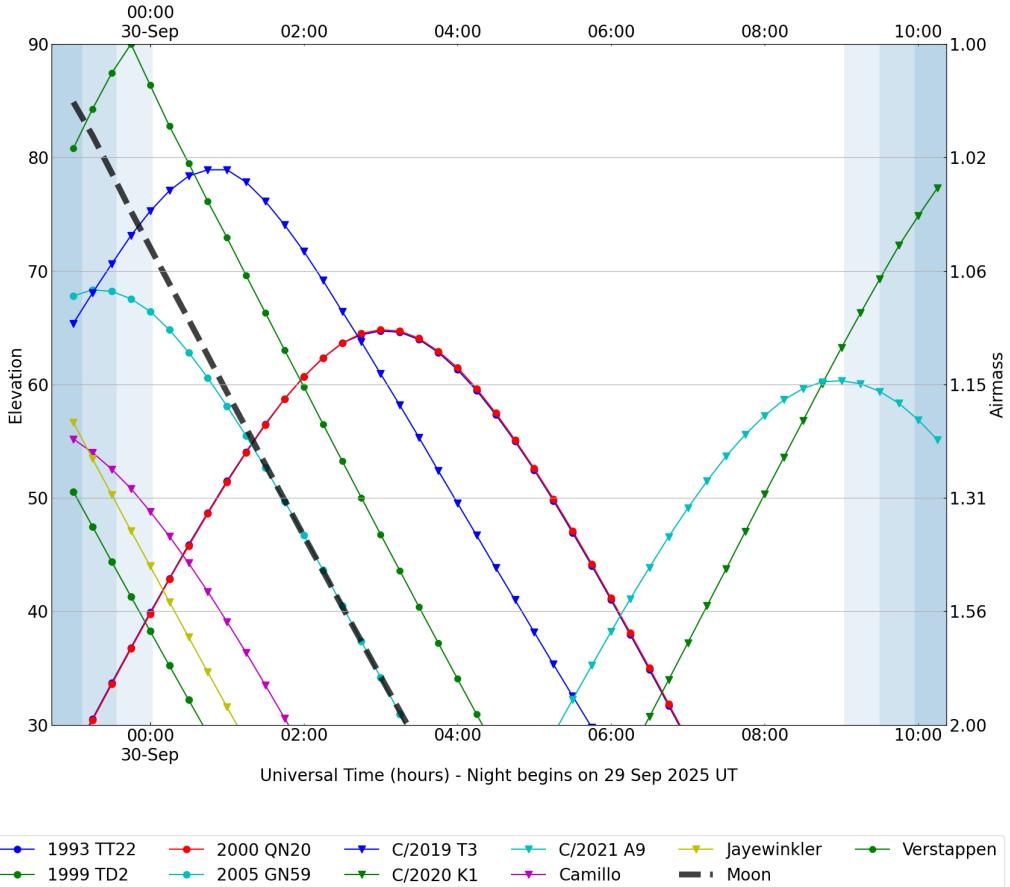
Sunrise-Sunset: 22:42 - 10:23 UT

Twilight-Twilight: 00:02 - 09:04 UT

Night lasts: 11.7 / 9.0 hours.

Lunar Illumination: 0.42

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:51:33	0:28:28	19.92	0.290	4.75	149.8
C/2020 K1	6:42:39	-18:55:25	18.47	0.111	3.50	130.8
1999 TD2	15:44:00	-33:23:05	20.47	1.136	1.50	25.9
Jayewinkler	16:14:36	-30:55:10	17.92	1.073	2.00	19.4
Camillo	18:10:27	4:40:10	18.78	1.517	2.75	33.5
2005 GN59	19:12:03	-7:24:14	17.84	0.510	4.25	29.6
Verstappen	19:32:27	-27:59:56	18.63	0.678	5.25	24.1
C/2019 T3	20:39:46	-40:23:29	21.64	0.120	6.75	38.2
1993 TT22	22:55:24	-3:58:18	18.22	0.499	7.25	77.7
2000 QN20	22:56:16	-4:08:43	18.19	0.458	7.25	77.8



2025-Sep-29

MPC code: 809

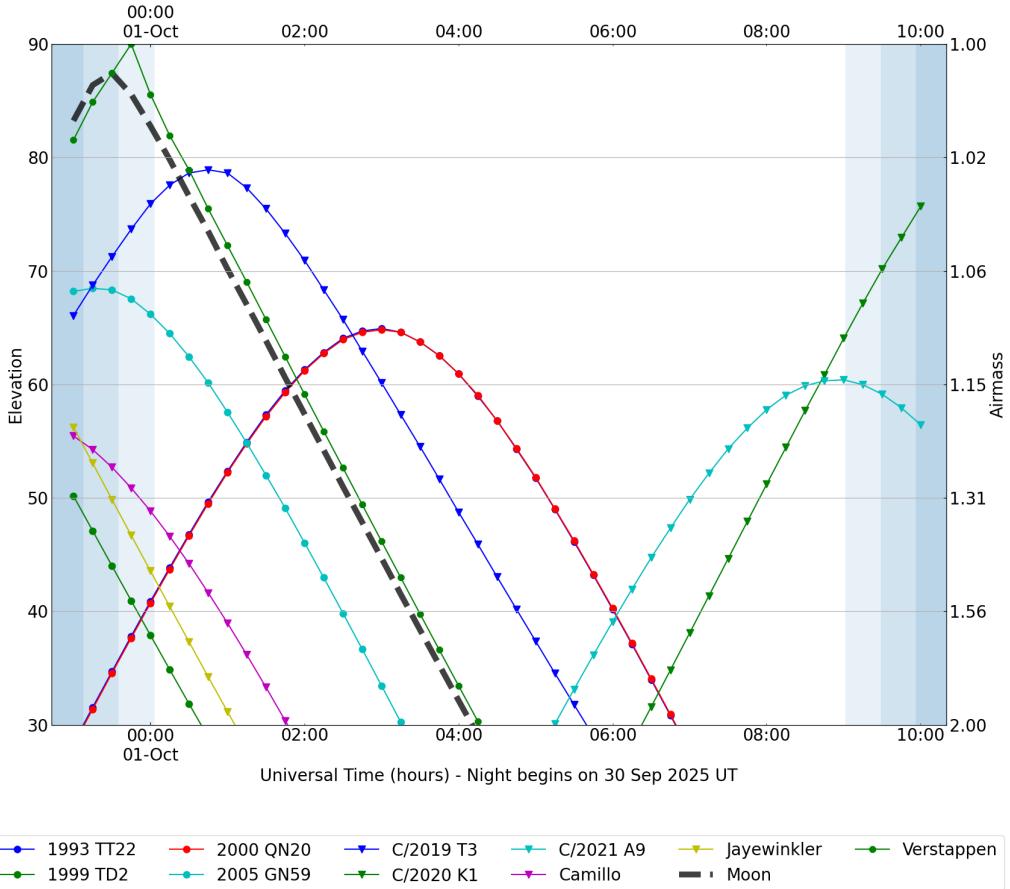
Sunrise-Sunset: 22:43 - 10:22 UT

Twilight-Twilight: 00:02 - 09:02 UT

Night lasts: 11.6 / 9.0 hours.

Lunar Illumination: 0.51

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:51:09	0:24:47	19.92	0.295	4.75	142.7
C/2020 K1	6:42:39	-18:58:04	18.47	0.111	3.75	133.4
1999 TD2	15:46:05	-33:30:13	20.47	1.141	1.50	37.2
Jayewinkler	16:16:35	-30:54:47	17.93	1.078	2.00	30.9
Camillo	18:11:40	4:08:47	18.80	1.510	2.75	32.4
2005 GN59	19:12:06	-7:36:34	17.84	0.511	4.25	21.6
Verstappen	19:33:34	-27:53:01	18.65	0.690	5.25	12.4
C/2019 T3	20:39:31	-40:23:43	21.65	0.117	6.50	28.1
1993 TT22	22:54:52	-4:06:22	18.25	0.483	7.50	65.4
2000 QN20	22:55:36	-4:09:37	18.23	0.440	7.50	65.5



2025-Sep-30

MPC code: 809

Sunrise-Sunset: 22:43 - 10:20 UT

Twilight-Twilight: 00:03 - 09:01 UT

Night lasts: 11.6 / 9.0 hours.

Lunar Illumination: 0.61

Target	RA	DEC	App_Mag	Rate	Vis	T-O-M
C/2021 A9	4:50:45	0:21:06	19.92	0.300	4.75	133.5
C/2020 K1	6:42:38	-19:00:42	18.47	0.112	3.50	133.6
1999 TD2	15:48:11	-33:37:15	20.48	1.145	1.50	48.8
Jayewinkler	16:18:35	-30:54:22	17.93	1.082	2.00	42.7
Camillo	18:12:54	3:37:57	18.81	1.502	2.75	35.1
2005 GN59	19:12:13	-7:48:52	17.84	0.514	4.25	18.6
Verstappen	19:34:43	-27:46:06	18.66	0.702	5.25	2.3
C/2019 T3	20:39:17	-40:23:56	21.66	0.113	6.50	20.2
1993 TT22	22:54:21	-4:14:13	18.29	0.467	7.50	52.8
2000 QN20	22:54:57	-4:10:25	18.26	0.422	7.50	53.0