

Comet Tsuchinshan-ATLAS (C/2023 A3)

—Local Circumstances for Tucson AZ—

Earliest Time Visible in a Dark Sky
At Least 10° Above the Horizon

Date	Time	Epoch of Date		Distance to		Constellation	Azimuth	Alt	Phase Angle
		RA	Dec	Earth	Sun				
S/S Oct 19/20	7:08 p.m.	16.25.40	+2.20.13	0.59 AU	0.70 AU	Ophiuchus	257° (WSW)	+24°	101.4°
S/M Oct 20/21	7:07 p.m.	16.38.23	+2.35.12	0.62 AU	0.71 AU	Ophiuchus	256° (WSW)	+26°	96.5°
M/T Oct 21/22	7:06 p.m.	16.49.52	+2.47.52	0.65 AU	0.73 AU	Ophiuchus	255° (WSW)	+28°	92.1°
T/W Oct 22/23	7:05 p.m.	17.00.13	+2.58.32	0.68 AU	0.75 AU	Ophiuchus	254° (WSW)	+29°	88.0°
W/T Oct 23/24	7:04 p.m.	17.09.34	+3.07.30	0.71 AU	0.77 AU	Ophiuchus	253° (WSW)	+31°	84.2°
T/F Oct 24/25	7:03 p.m.	17.18.02	+3.15.03	0.74 AU	0.79 AU	Ophiuchus	252° (WSW)	+32°	80.8°
F/S Oct 25/26	7:03 p.m.	17.25.43	+3.21.24	0.77 AU	0.81 AU	Ophiuchus	251° (WSW)	+33°	77.6°
S/S Oct 26/27	7:02 p.m.	17.32.43	+3.26.46	0.81 AU	0.83 AU	Ophiuchus	251° (WSW)	+34°	74.6°
S/M Oct 27/28	7:01 p.m.	17.39.06	+3.31.18	0.84 AU	0.85 AU	Ophiuchus	250° (WSW)	+34°	71.9°
M/T Oct 28/29	7:00 p.m.	17.44.57	+3.35.09	0.88 AU	0.87 AU	Ophiuchus	250° (WSW)	+35°	69.3°
T/W Oct 29/30	6:59 p.m.	17.50.20	+3.38.27	0.91 AU	0.89 AU	Ophiuchus	249° (WSW)	+35°	67.0°
W/T Oct 30/31	6:58 p.m.	17.55.18	+3.41.16	0.95 AU	0.91 AU	Ophiuchus	249° (WSW)	+36°	64.7°
T/F Oct 31/1	6:57 p.m.	17.59.54	+3.43.43	0.98 AU	0.93 AU	Ophiuchus	249° (WSW)	+36°	62.6°
F/S Nov 1/2	6:57 p.m.	18.04.10	+3.45.51	1.02 AU	0.95 AU	Ophiuchus	249° (WSW)	+36°	60.6°
S/S Nov 2/3	6:56 p.m.	18.08.09	+3.47.43	1.05 AU	0.97 AU	Ophiuchus	248° (WSW)	+37°	58.8°
S/M Nov 3/4	6:55 p.m.	18.11.52	+3.49.24	1.09 AU	0.99 AU	Ophiuchus	248° (WSW)	+37°	57.0°
M/T Nov 4/5	7:41 p.m.	18.15.28	+3.50.57	1.12 AU	1.00 AU	Ophiuchus	256° (WSW)	+27°	55.3°
T/W Nov 5/6	8:36 p.m.	18.18.52	+3.52.23	1.16 AU	1.02 AU	Ophiuchus	265° (W)	+16°	53.6°

The phase angle is the Sun-Comet-Earth angle. A comet's tails are usually best presented when the phase angle is near 90°.

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S/M Nov 17/18	6:48 p.m.	18.47.28	+4.06.29	1.56 AU	1.24 AU	Serpens	251° (WSW)	+34°	39.3°
M/T Nov 18/19	6:48 p.m.	18.49.18	+4.07.50	1.59 AU	1.26 AU	Serpens	251° (WSW)	+34°	38.4°
T/W Nov 19/20	6:47 p.m.	18.51.04	+4.09.14	1.62 AU	1.28 AU	Serpens	252° (WSW)	+34°	37.5°
W/T Nov 20/21	6:47 p.m.	18.52.47	+4.10.41	1.65 AU	1.30 AU	Serpens	252° (WSW)	+33°	36.6°
T/F Nov 21/22	6:47 p.m.	18.54.28	+4.12.12	1.69 AU	1.32 AU	Serpens	252° (WSW)	+33°	35.8°
F/S Nov 22/23	6:47 p.m.	18.56.05	+4.13.48	1.72 AU	1.33 AU	Serpens	253° (WSW)	+32°	35.0°
S/S Nov 23/24	6:46 p.m.	18.57.40	+4.15.27	1.75 AU	1.35 AU	Serpens	253° (WSW)	+32°	34.2°
S/M Nov 24/25	6:46 p.m.	18.59.13	+4.17.11	1.78 AU	1.37 AU	Aquila	253° (WSW)	+32°	33.4°
M/T Nov 25/26	6:46 p.m.	19.00.44	+4.18.59	1.81 AU	1.39 AU	Aquila	254° (WSW)	+31°	32.7°
T/W Nov 26/27	6:46 p.m.	19.02.12	+4.20.52	1.84 AU	1.40 AU	Aquila	254° (WSW)	+31°	31.9°
W/T Nov 27/2	6:46 p.m.	19.03.39	+4.22.50	1.87 AU	1.42 AU	Aquila	255° (WSW)	+30°	31.2°
T/F Nov 28/29	6:46 p.m.	19.05.03	+4.24.53	1.90 AU	1.44 AU	Aquila	255° (WSW)	+30°	30.6°
F/S Nov 29/30	6:46 p.m.	19.06.27	+4.27.00	1.93 AU	1.46 AU	Aquila	256° (WSW)	+29°	29.9°
S/S Nov 30/1	6:46 p.m.	19.07.48	+4.29.13	1.96 AU	1.47 AU	Aquila	256° (WSW)	+29°	29.2°
S/M Dec 1/2	6:46 p.m.	19.09.08	+4.31.30	1.99 AU	1.49 AU	Aquila	257° (WSW)	+28°	28.6°
M/T Dec 2/3	6:46 p.m.	19.10.27	+4.33.53	2.02 AU	1.51 AU	Aquila	257° (WSW)	+28°	28.0°
T/W Dec 3/4	7:31 p.m.	19.11.46	+4.36.26	2.05 AU	1.53 AU	Aquila	264° (W)	+18°	27.4°

The phase angle is the Sun-Comet-Earth angle. A comet's tails are usually best presented when the phase angle is near 90°.