

Comet Borisov

14 October 2019

Bill Barton, FRAS

- Gennadiy Borisov
- Born 1962
- Crimea
- Observatory founded 2013
 - 0.192m (7.6")
 - 0.3m (11.8") 2014
 - 0.65m (25.6") 2019



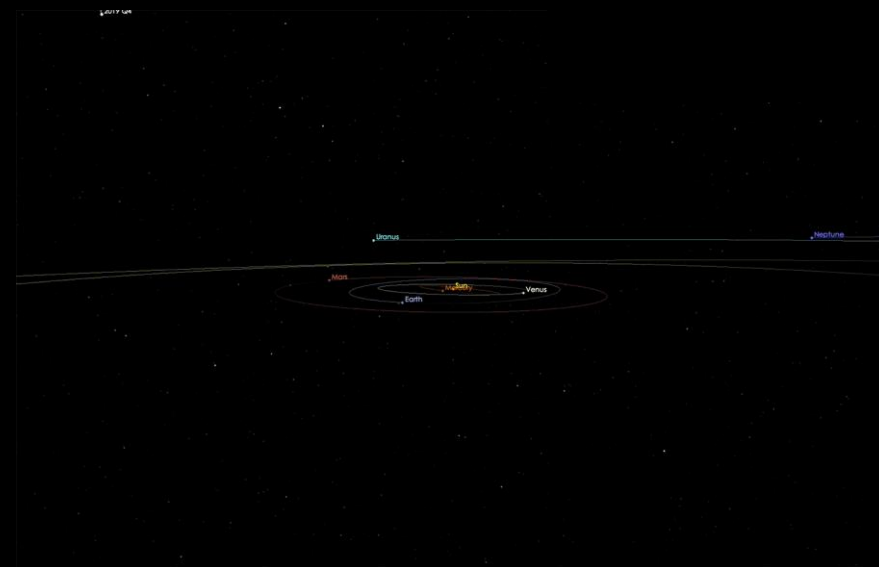
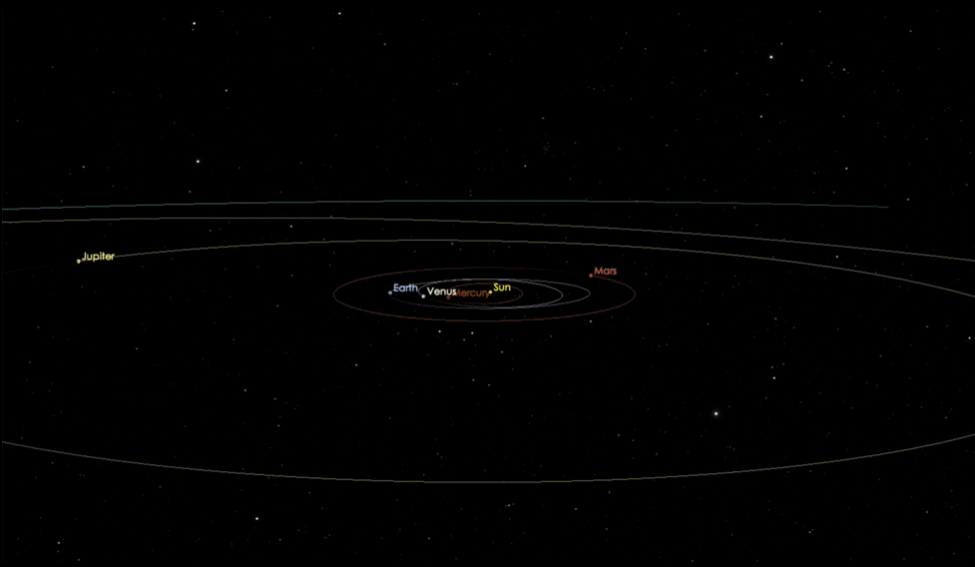
An Interstellar Visitor

- 2I/Borisov
 - Discovered by amateur astronomer Gennadiy Borisov
 - His 8th comet discovery
 - C/2013 N4 Borisov
 - C/2013 V2 Borisov
 - C/2014 R1 Borisov
 - C/2014 Q3 Borisov
 - C/2015 D4 Borisov
 - C/2016 R3 Borisov
 - C/2017 E1 Borisov
 - 2I/Borisov (previously known as gb00234 & C/2019 Q4)

Eccentricity

- Numerical measure of orbits
 - $e = 0$ (circle, closed)
 - $0 < e < 1$ (ellipse, closed)
 - $e = 1$ (parabola, open)
 - $e > 1$ (hyperbola, open)

1I/'Oumuamua & 2I/Borisov



	1I/'Oumuamua	2I/Borisov
Discovery Date	19 October 2017	30 August 2019
Perihelion Date	9 September 2017	8 December 2019
Perihelion Distance	0.26 au	2.0 au
Eccentricity	1.2	3.3
Size	230m × 35m × 35m	1.4-6.6 km diameter
Inclination	123°	44°
Excess Velocity	26.3 km/s or 5.6 au/yr	32.1 km/s or 6.8 au/yr
Apparent Origin	Lyra	Cassiopeia/Perseus
Apparent Destination	Pegasus	Telescopium

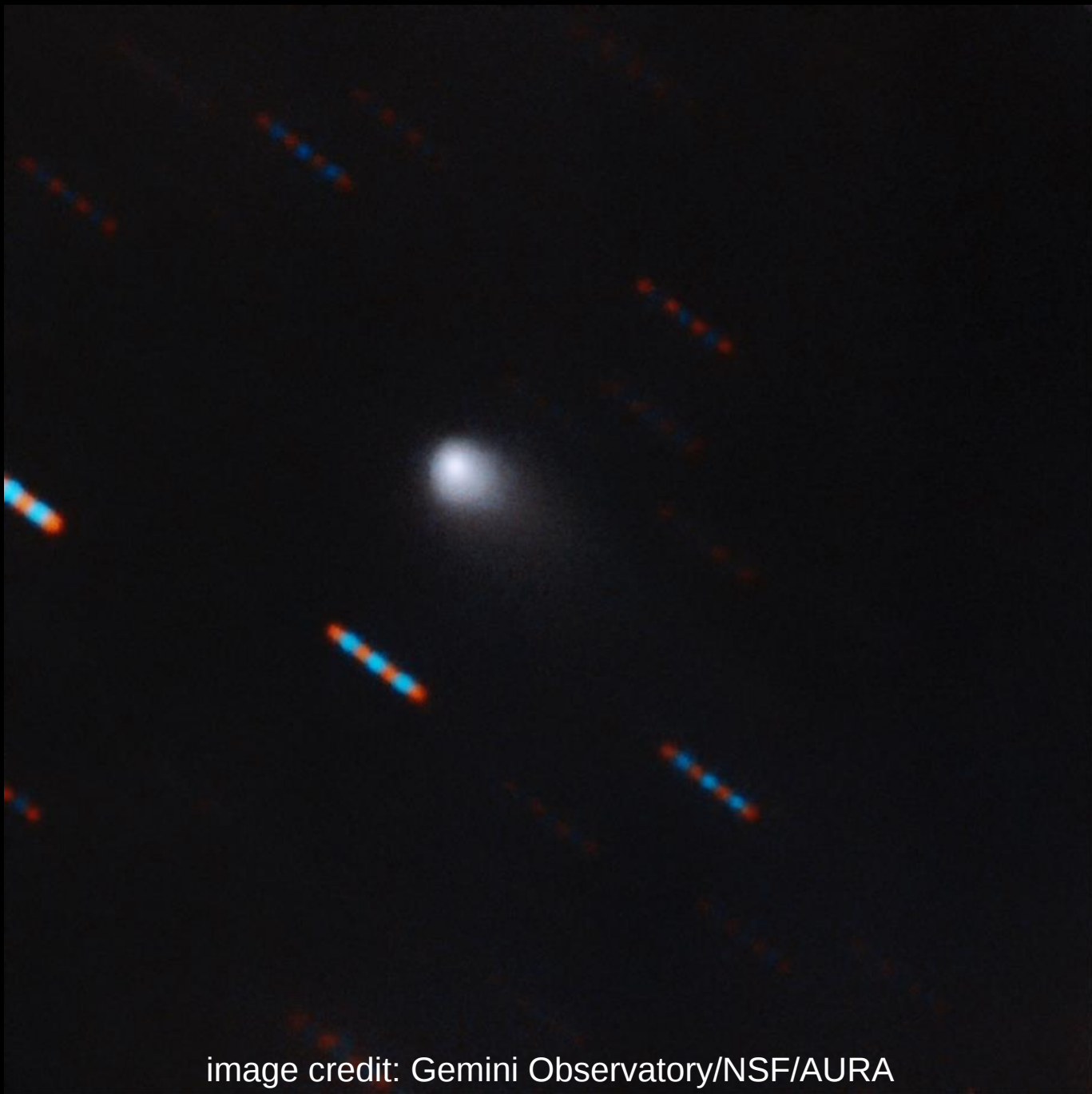
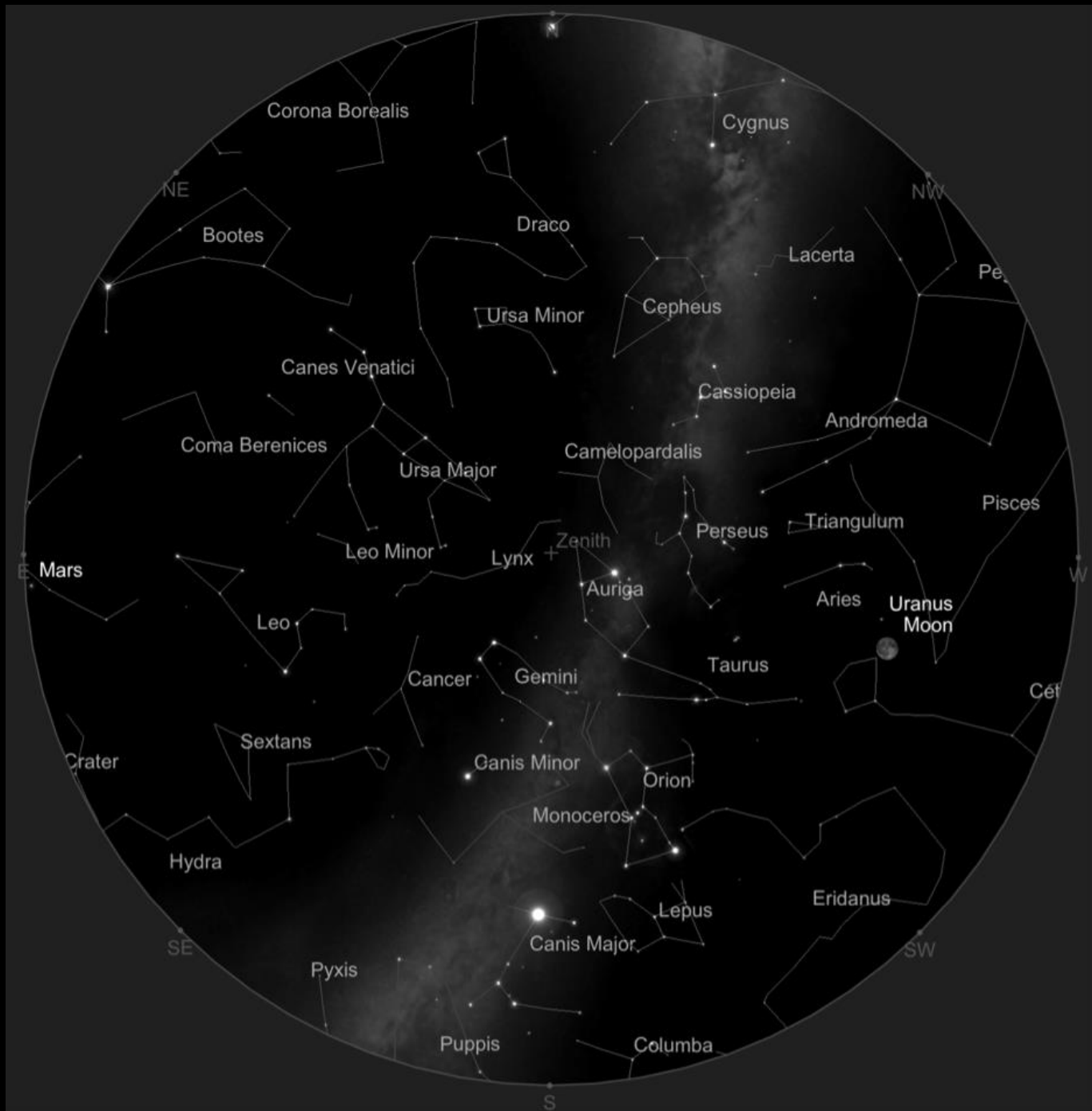


image credit: Gemini Observatory/NSF/AURA

2I/Borisov Ephemeris

Date	RA	Decl.	Delta	r	Elong.	Phase	m1
2019 09 26	09 17 05.8	+25 06 30	3.1258	2.5808	49.0	17.0	17.6
2019 10 04	09 31 57.2	+21 55 27	2.9567	2.4744	52.3	18.7	17.3
2019 10 12	09 46 42.4	+18 23 26	2.7938	2.3759	55.5	20.3	17.0
2019 10 27	10 14 03.0	+10 43 31	2.5125	2.2163	61.4	23.2	16.5

Data source: MPEC 2019-S120



Finder Chart

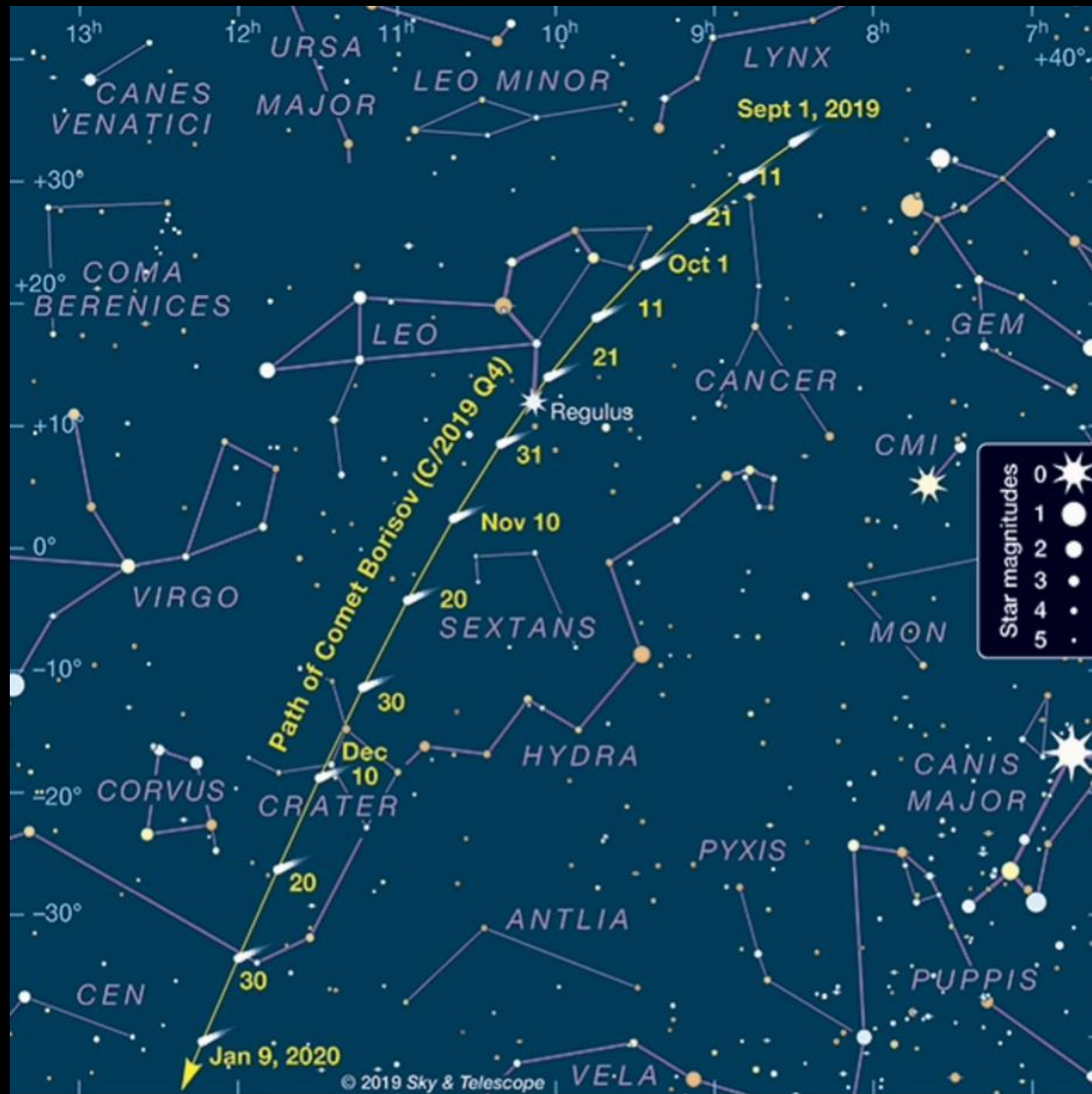


image
credit:
'Sky &
Telescope'

How Bright?

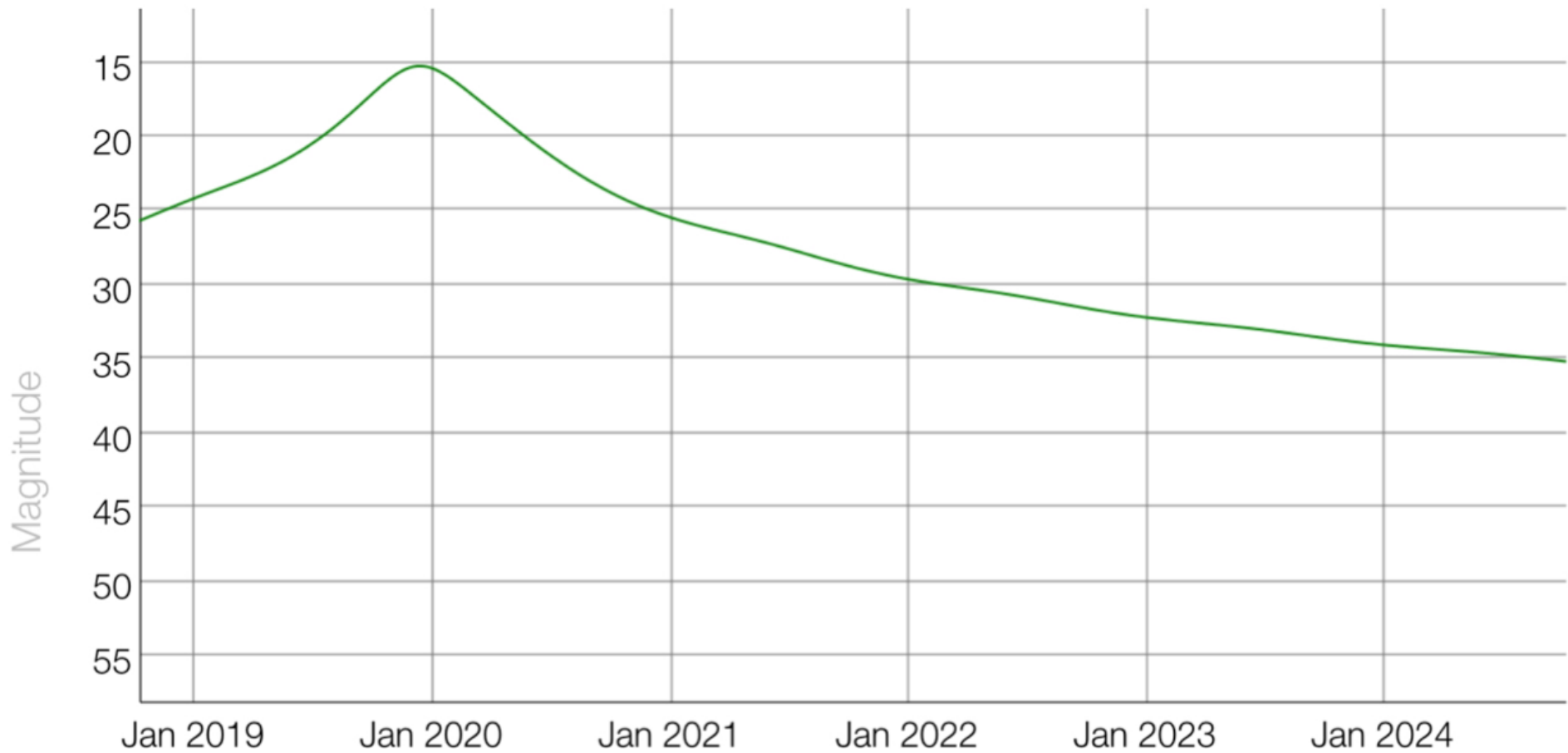


image credit: theskylive.com