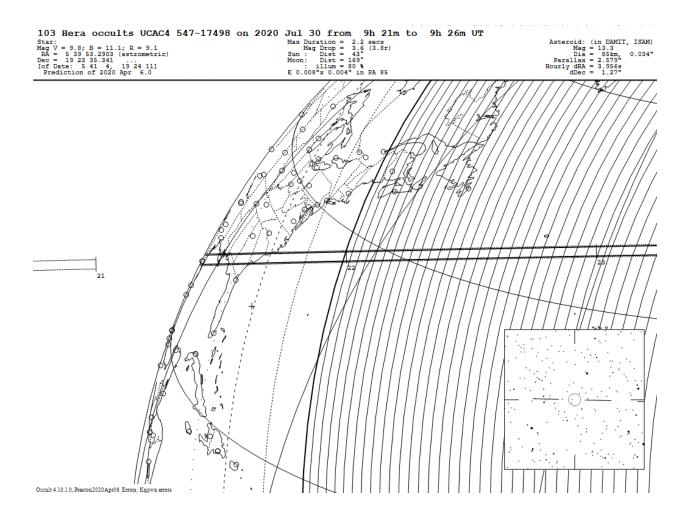
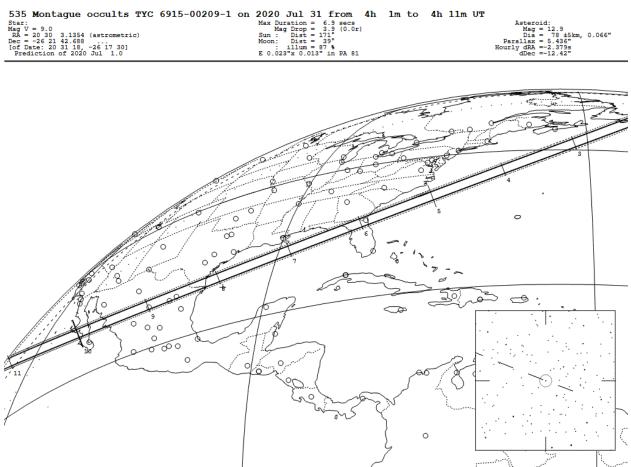
Upcoming Important Planetary Events for North America

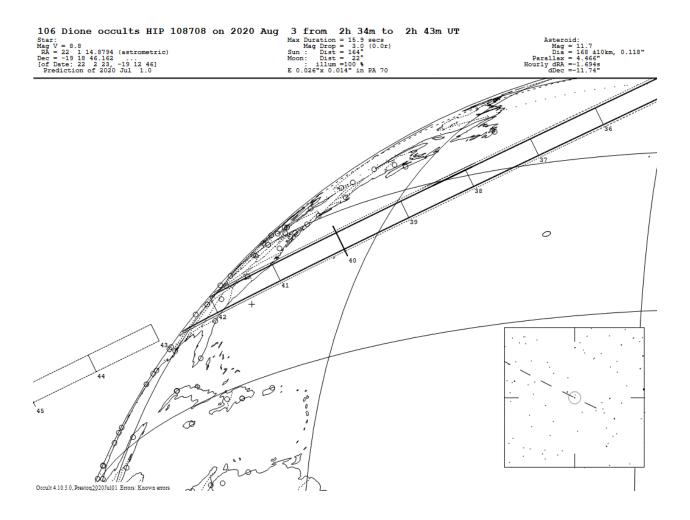
Steve Preston

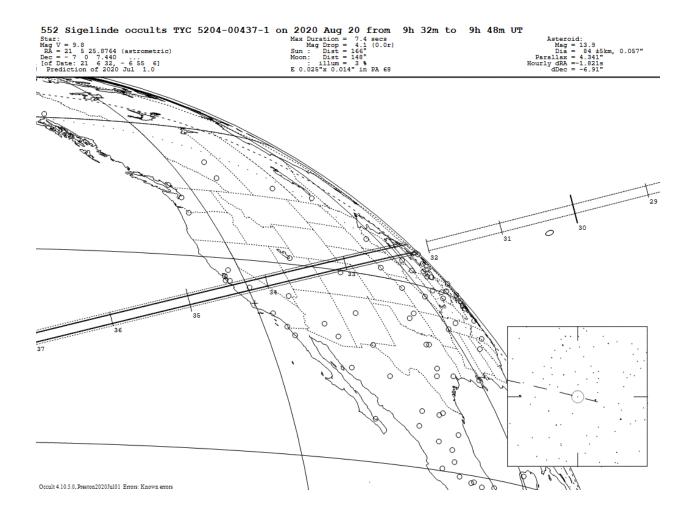
Jul 26, 2020





Occult 4.10.5.0, Preston2020Jul01 Errors: Known errors





2020-Sep-16 : SWRI campaign to observer an occultation by Eurybates: http://lucy.swri.edu//occ/20200916Eurybates.html

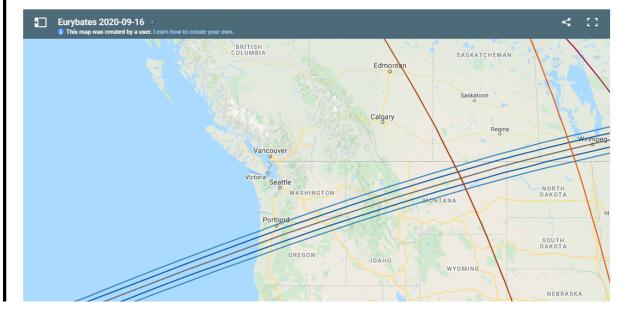


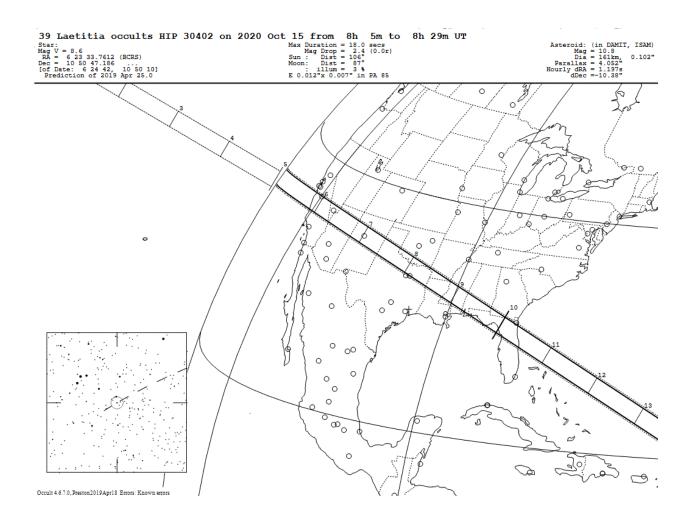
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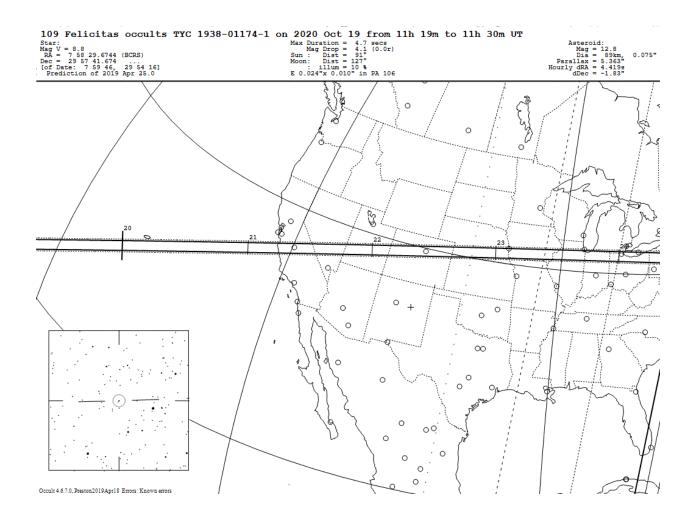
Eurybates Occultation 2020-09-16 (G* = 14.5)

The interactive map below shows our current prediction for the stellar occulation by (3548) Eurybates on 2020 September 16 UT. The prediction is based on a Gaia DR2 position for the star, corrected for parallax and proper motion, and the v20200205194740 orbit estimate for Eurybates, which has a 1sigma cross-track uncertainty of 9.5 km.

Geocentric mid-time of the event is 11:03:02 UT. Star position is RA 01:28:57.8, Dec +04:28:34 (J2000), and its magnitude is 15.52. Eurybates is moving at 13 km/s with respect to the star and its diameter is estimated to be 66 km, so central chords are expected to last 5.2 seconds.







2020-Oct-21 : SWRI Campaign for occultation by Orus

http://lucy.swri.edu//occ/202010210rus.html

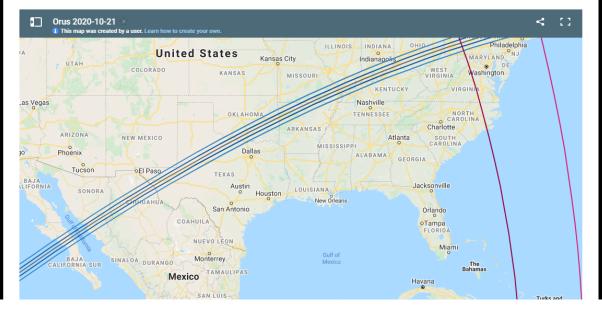
NASA

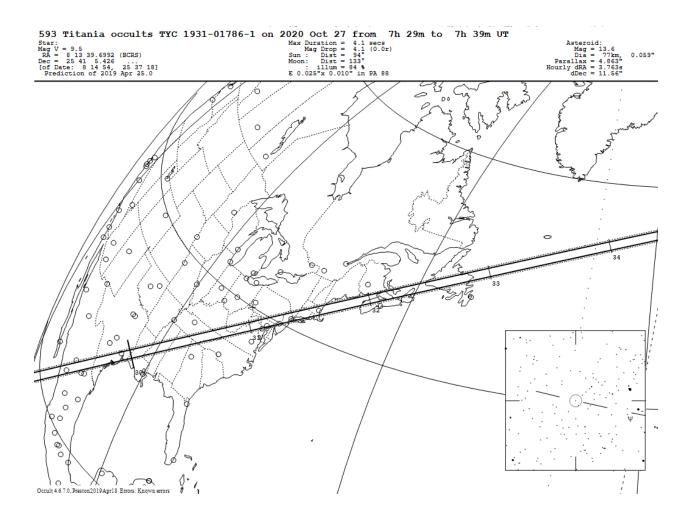
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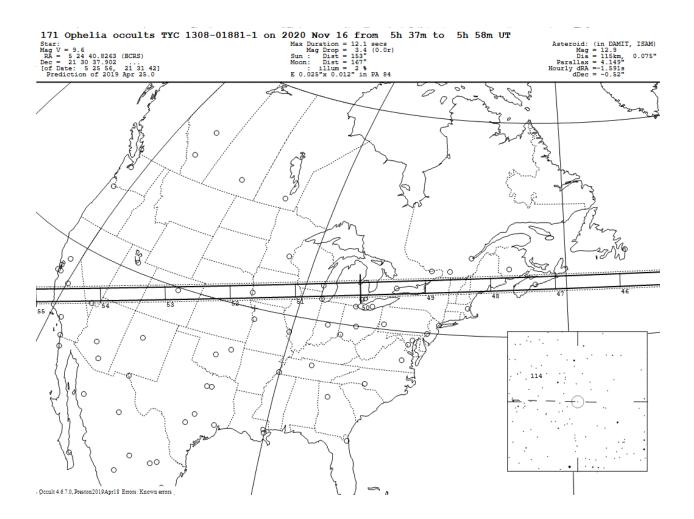
Orus Occultation 2020-10-21 (G* = 16.1)

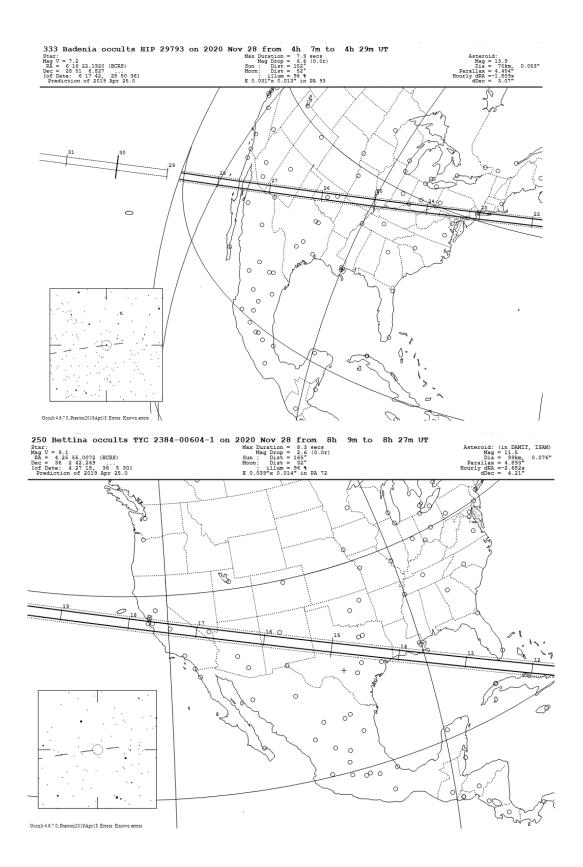
The interactive map below shows our current prediction for the stellar occulation by (21900) Orus on 2020 October 21 UT. The prediction is based on a Gaia DR2 position for the star, corrected for parallax and proper motion, and the v20200213210304 orbit estimate for Orus, which has a 1-sigma cross-track uncertainty of 10.7 km.

Geocentric mid-time of the event is 06:14:54 UT. Star position is RA 23:16:36.7, Dec +06:10:54 (J2000), and its magnitude is 16.95. Orus is moving at 11 km/s with respect to the star and its diameter is estimated to be 51 km, so central chords are expected to last 4.5 seconds.

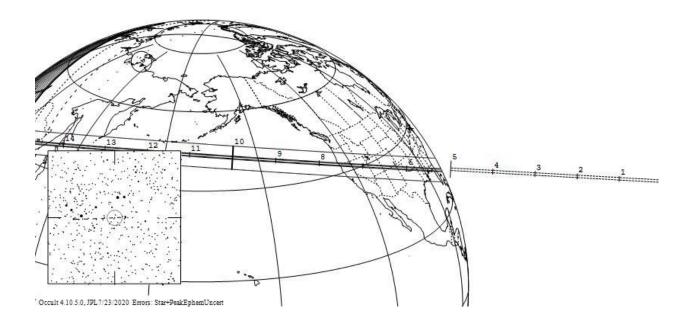


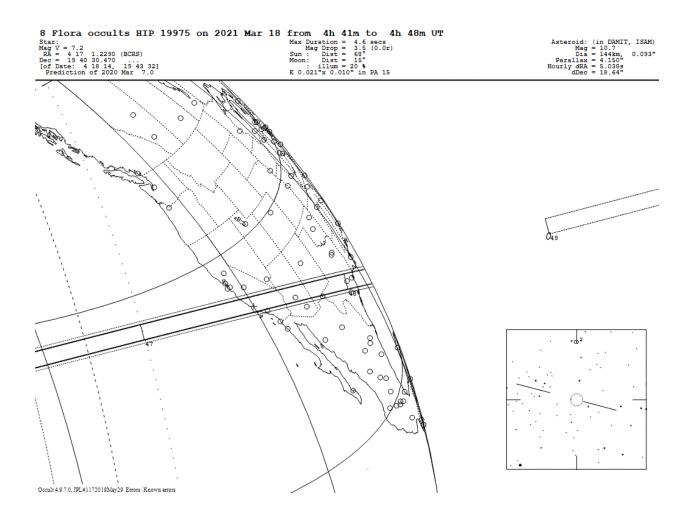






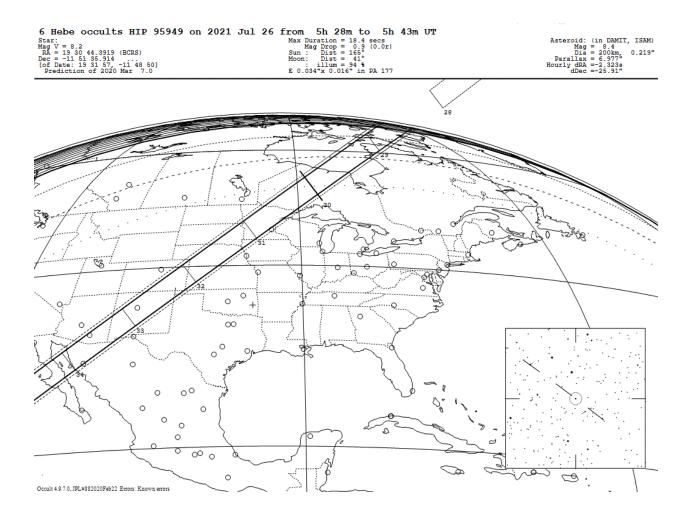
44-017918 on 2021 Jan 19 fr	com 9h 5m to 9h 16m UT
Max Duration = 3.5 secs	Asteroid:
Mag Drop = 8.8 (8.9r) Sun : Dist = 146°	Mag = 19.7 Dia = 59 ±10km. 0.009"
Moon: Dist = 73°	Parallax = 0.930"
	Hourly dRA =-0.620s dDec = 0.50"
	Max Duration = 3.5 secs Mag Drop = 8.8 (8.9r) Sun : Dist = 146°

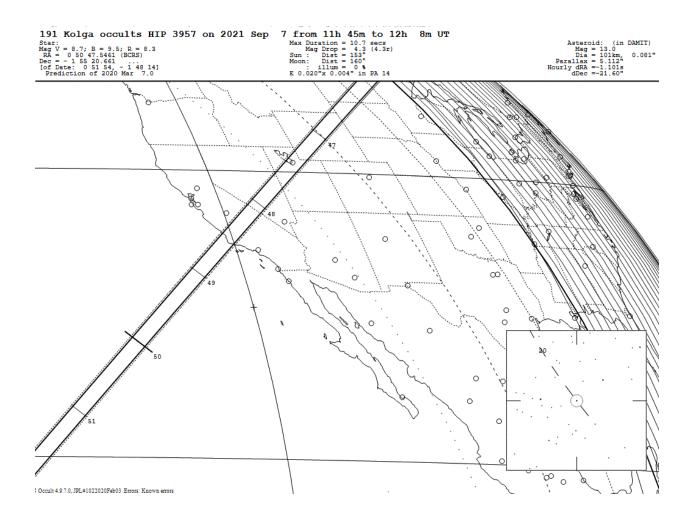


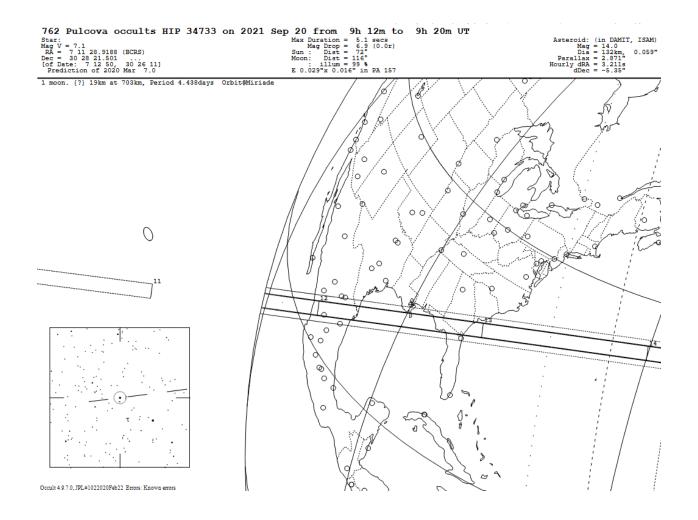


2021-Apr-2 Jupiter Occults mag 5.8 star 44 Capricorni

- Duration of 72 minutes
- Reappearance visible from much of the Eastern USA and Canada







2021-Oct-20 : SWRI Campaign for occultation by Eurybates

http://lucy.swri.edu//occ/20211020Eurybates.html

NASA

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Eurybates Occultation 2021-10-20 (G* = 12.3)

The interactive map below shows our current prediction for the stellar occulation by (3548) Eurybates on 2021 October 20 UT. The prediction is based on a Gaia DR2 position for the star, corrected for parallax and proper motion, and the v20200205215427 orbit estimate for Eurybates, which has a 1-sigma cross-track uncertainty of 20.0 km.

Geocentric mid-time of the event is 12:03:27 UT. Star position is RA 03:56:45.3, Dec +22:24:10 (J2000), and its magnitude is 13.49. Eurybates is moving at 11 km/s with respect to the star and its diameter is estimated to be 66 km, so central chords are expected to last 6.0 seconds.

