

Three Asteroidal occ'n's in central USA, Aug. 14 - 24

930 Westphalia occults HIP 34358 on 2017 Aug 14 from 9h 26m to 9h 30m UT

Star: $M_V = 5.9$ $Di = 2mas$
 RA = 7 7 22.3741 (J2000)
 Dec = 34 0 32.310
 [of Date: 7 8 30, 33 58 43]
 Prediction of 2016 Oct 11.0

Max Duration = 1.0 secs
 Mag Drop = 10.3
 Sun : Dist = 39 deg
 Moon : Dist = 63 deg
 Illum = 57 %
 E 0.022"x 0.018" in PA 80

Asteroid: $M_V = 16.8$ $Di = 36km$ $0.015''$
 Parallax = 2.601"
 Hourly dRA = 4.632s
 dDec = -4.80"

Expect fades - star dia.

834 Burnhamia occults TYC 5780-00308-1 on 2017 Aug 23 from 3h 49m to 4h 2m UT

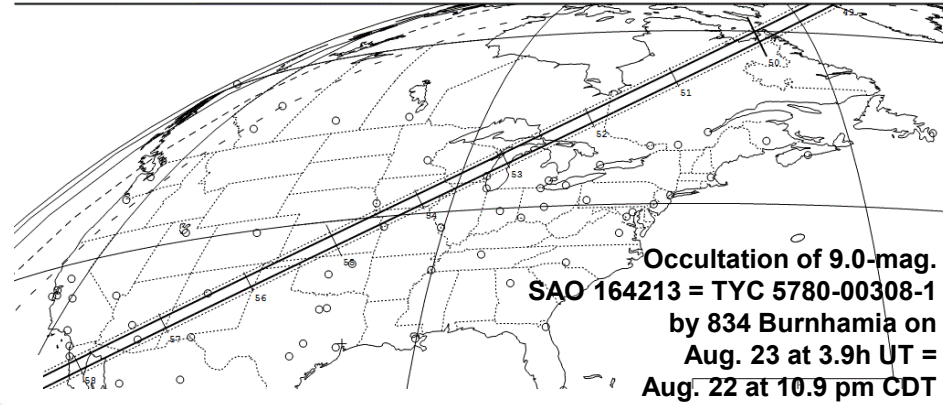
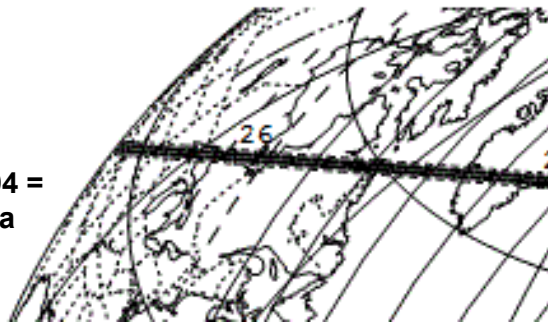
Star: $M_V = 9.1$ $Di = 21.12$ 25.8433 (J2000)
 Dec = -11 49 7.221
 [of Date: 21 13 24, -11 44 35]
 Prediction of 2016 Oct 11.0

Max Duration = 7.1 secs
 Mag Drop = 4.0
 Sun : Dist = 166 deg
 Moon : Dist = 168 deg
 Illum = 2 %
 E 0.034"x 0.017" in PA 74

Asteroid: $M_V = 13.1$ $Di = 66km$ $0.054''$
 Parallax = 5.175"
 Hourly dRA = -1.653s
 dDec = -12.03"

24 25 26

Occ'n of 5.9-mag. SAO 59794 = HIP 34358 by 930 Westphalia on Aug. 14 at 9:25 UT = 4:25 am CDT



Occultation of 9.0-mag. SAO 164213 = TYC 5780-00308-1 by 834 Burnhamia on Aug. 23 at 3.9h UT = Aug. 22 at 10.9 pm CDT



Many Occultations Occur Between Solar Eclipses

849 Ara occults TYC 0741-01184-1 on 2017 Aug 24 from 10h 49m to 10h 56m UT

Star: $M_V = 10.4$
 RA = 6 34 23.1359 (J2000)
 Dec = 12 32 45.292
 [of Date: 6 38 21, 12 31 49]
 Prediction of 2016 Oct 11.0

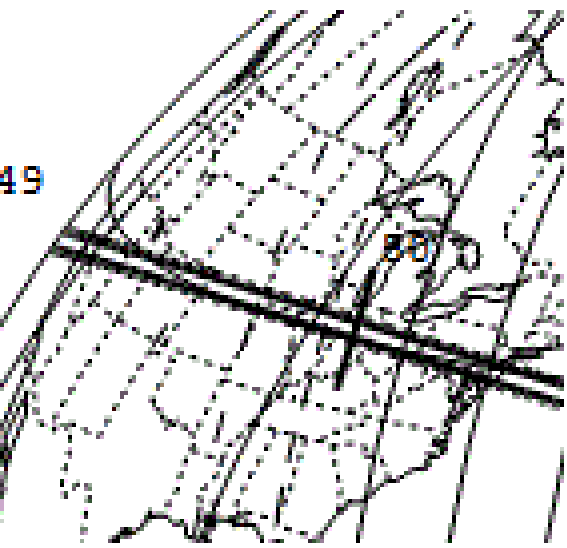
Max Duration = 2.7 secs
 Mag Drop = 4.4
 Sun : Dist = 54 deg
 Moon : Dist = 89 deg
 Illum = 3 %
 E 0.012"x 0.008" in PA 74

Asteroid: (in DAMIT, ISAM)
 $M_V = 14.8$ $Di = 84km$ $0.028''$
 Parallax = 2.090"
 Hourly dRA = 2.464s
 dDec = -11.11"

48 49 50

INTERNATIONAL OCCULTATION TIMING ASSOCIATION

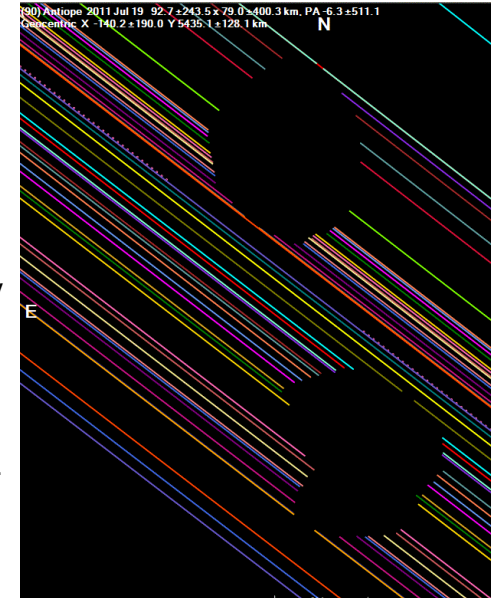
Occultation of 10.4-mag. TYC 0741-01184-1 by 849 Ara on Aug. 24 at 10:49 UT = 5:49 am CDT



These events provide multiple dynamic location-dependent opportunities for education and science. Help IOTA measure asteroids, stellar angular diameters, & discover & measure close double stars using your own, or a new sensitive cheap video camera to capture data directly to your PC. Visit IOTA's site at www.occultations.org for details. You should watch this composite video of the spectacular 2017 Mar. Aldebaran lunar graze in Mississauga, Ontario at <https://vimeo.com/209854850>

Below:

2011 July 19 occ'n of LQ Aquarii by Binary Asteroid (90) Antiope



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