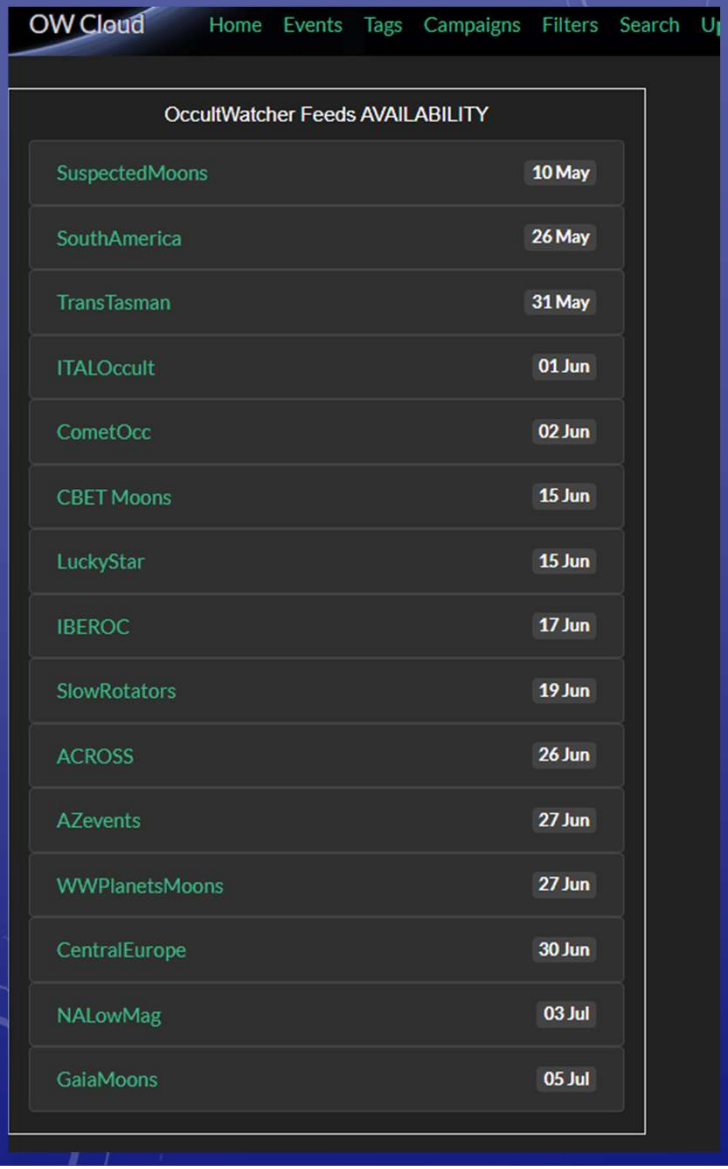
UPCOMING OCCULTATIONS AND CAMPAIGNS

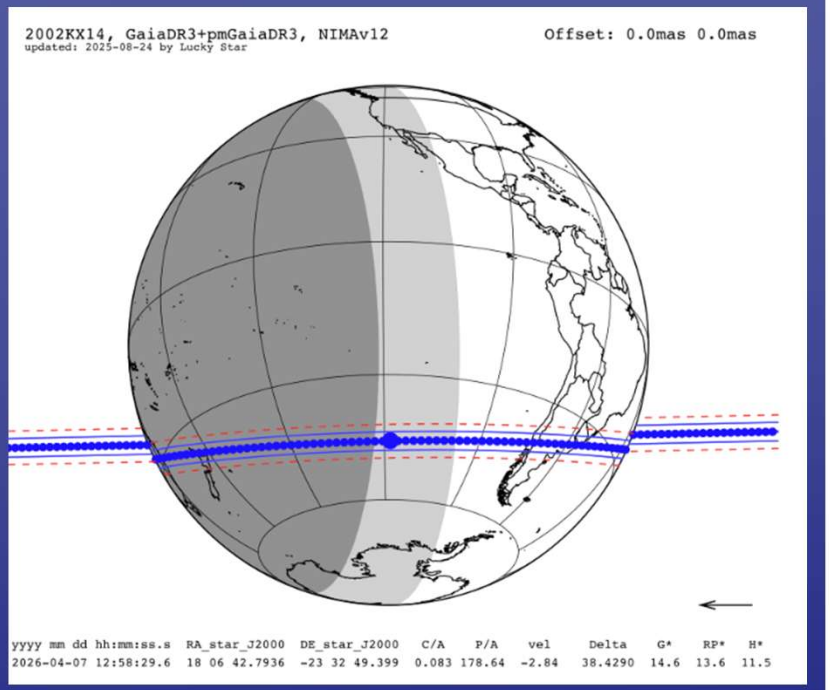
THINGS TO PUT IN THE CALENDAR

TTSO20 – 6 APRIL 2026



OCCULTWATCHER CLOUD FEEDS

A new option here is CBET Moons targeting objects that have had CBET's issued confirming binary nature.



Date	Tue. 7 Apr. 2026 12:58:29
Star position (ICRF)	18 06 42.7936 -23 32 49.399
C/A	0.083 arcsec
P/A	178.64 °
velocity	-2.84 km/s
Geocentric distance Δ	38.4290 au
G mag*	14.6
J mag*	13.6
H mag*	11.5
Magnitude drop	4.1
Uncertainty in time	173.4 sec
Uncertainty in C/A	6.6 mas
Uncertainty in projected distance	183.8 km
Probability of occultation on centrality	78.4%
Maximum duration	160.2 sec
Moon distance to the object	14.2°
Fraction of illuminated Moon	74.4 %
Solar elongation	105.8°

https://cloud.occultwatcher.net/event/1925-88055-269491-646759-U162127/3506496

OW Cloud

(88055) Ghaf occults UCAC4 352-162127 on 10 Apr 2026

Dark Theme | Welcome, Stephen Kerr

Tagged as: Peter Nosworthy

Prediction

- Last Updated: 04/Apr/26, 02:26 UT
- Computed By: OWC
- Data Sources: Horizons/GaiaDR3
- Orbit Date: 27 Nov 2025
- Error (path widths): 0.151
- Error in time: 0.5 sec
- Err. Ellipse: 0.0037" x 0.0003"
- Err. Ellipse PA: 92°
- Err. Basis: Star+JplPeakEphemUncert
- OWC Id: 3506496

Event

- From: 18:27:36 UT
- To: 18:42:08 UT
- Combined Mag: 13.80
- Max Duration: 0.4 sec
- Mag Drop (V): 6.05
- Mag Drop (R): 5.93
- Shadow Width: 5.5 km
- Moon Phase: 44% sunlit
- Solar Elong.: 96°
- Moon Elong.: 14°

Target Star

- Name: UCAC4 352-162127
- V mag: 14.60
- Constellation: Sagittarius
- R mag: 13.80
- Diameter: ()
- B mag: 15.29
- RUWE: 1.00
- Flags:
- Gaia SourceId:
- Gaia Flags:
- 4085447834865792896
- RA [aprnt]: 19h 03m 45s.3039
- RA [ICRS]: 19h 02m 11s.7583
- Dec [aprnt]: -19° 44' 55".737
- Dec [ICRS]: -19° 47' 09".999

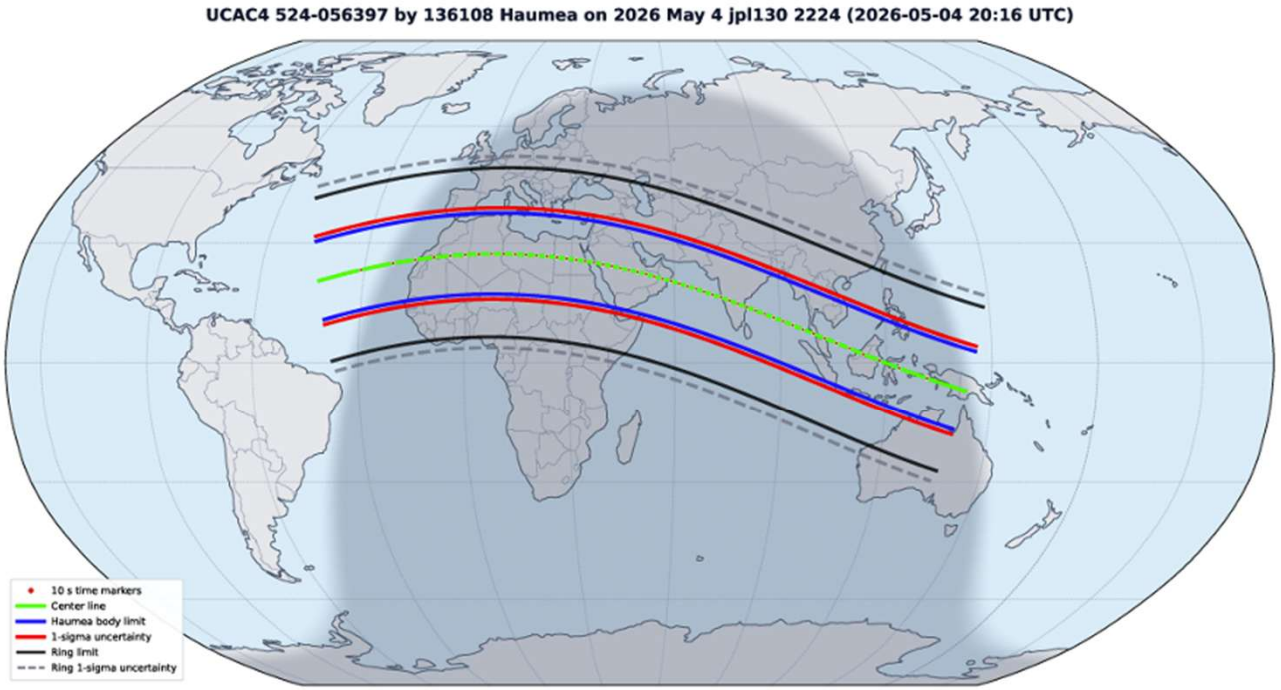
Object

- Name: (88055) Ghaf
- Class: Asteroid
- Diameter: 5.4 ± 0.6 km (Augmented)
- Diameter (augm): 2.96 mas
- Distance: 2.5137 au
- Mag: 20.6 ⚠
- Motion RA: 28.21 "/hr
- Motion Dec: 1.67 "/hr
- Moons: 0
- Rings: 0

Table 1. Stellar occultation opportunities (2026-2030)

Occultation Date	Approx. Time (UT)	Star Coordinates (RA, Dec)	Mv	RUWE	Max Dur. (s)	Lun. Dist. (°)	Illum. (%)
2026 May 04	20:12 to 20:22	RA 14 40 58.5, Dec +14 40 26	14.7	6.6	66	55	91
2027 Jul 29	02:10 to 02:26	RA 14 40 58.5, Dec +14 03 13	19.4	1.0	93	134	25
2027 Jul 29	13:52 to 14:08	RA 14 42 58.4, Dec +13 55 61	15.7	1.0	92	130	20
2028 Jan 02	15:32 to 15:44	RA 14 50 48.3, Dec +12 58 38	18.3	1.0	32	5.1	68
2028 May 16	12:09 to 12:18	RA 14 47 31.3, Dec +14 02 07	18.4	1.0	32	5.0	44
2029 Jan 02	01:08 to 01:19	RA 14 54 24.3, Dec +12 38 09	19.8	1.0	65	98	98
2029 Feb 15	22:30 to 22:46	RA 14 58 35.1, Dec +12 58 25	20.2	1.0	94	128	6
2030 Jan 13	10:20 to 10:35	RA 14 58 32.3, Dec +12 46 36	20.4	1.1	81	148	67
2030 Mar 04	14:08 to 14:23	RA 14 59 01.8, Dec +12 47 09	20.2	1.1	82	121	0
2030 May 12	19:02 to 19:12	RA 14 55 13.1, Dec +13 19 42	20.1	0.9	63	58	72
2030 May 24	14:15 to 14:27	RA 14 54 25.4, Dec +13 21 11	16.4	0.9	65	114	46

Notes. "Approx. Time (UT)" indicates the time interval during which Haumea's shadow crosses the Earth. The listed coordinates correspond to the occultation epoch (i.e., stellar positions propagated to the event date). "Max Dur. (s)" is the maximum theoretical duration at central chord, "Lun. Dist." is the angular distance to the Moon, and "Illum." is the lunar illuminated fraction.



https://arxiv.org/pdf/2603.15049

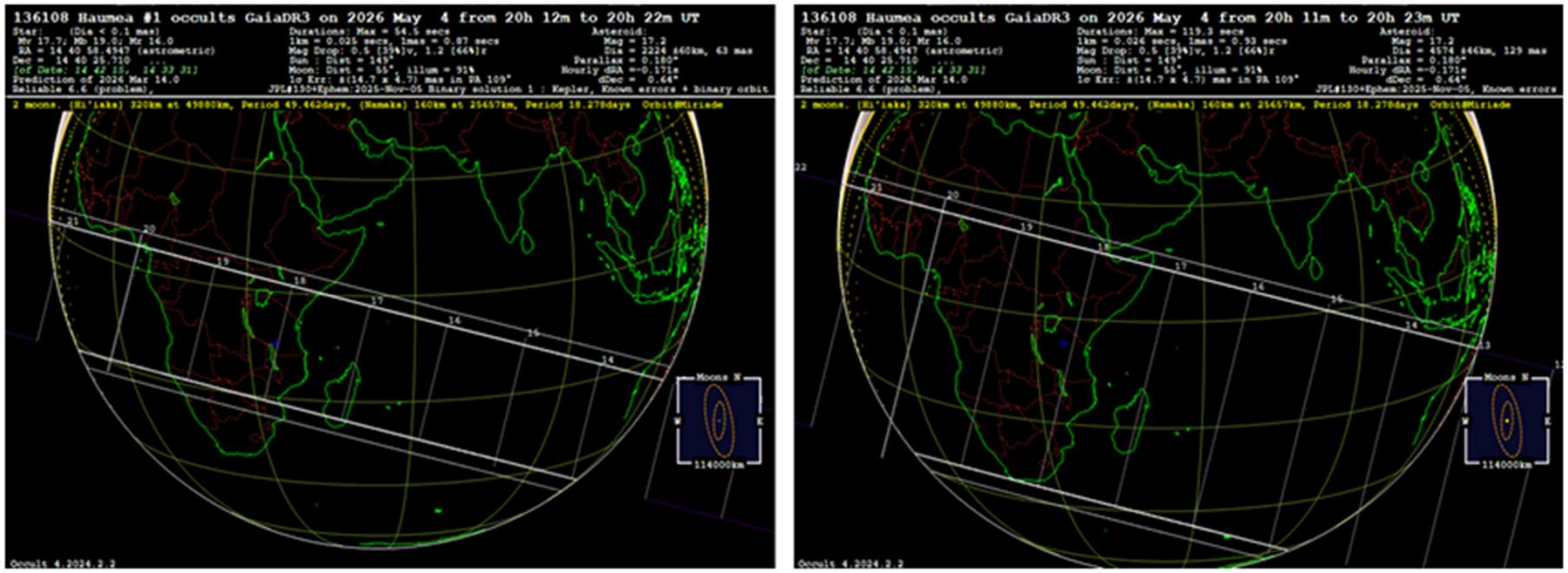
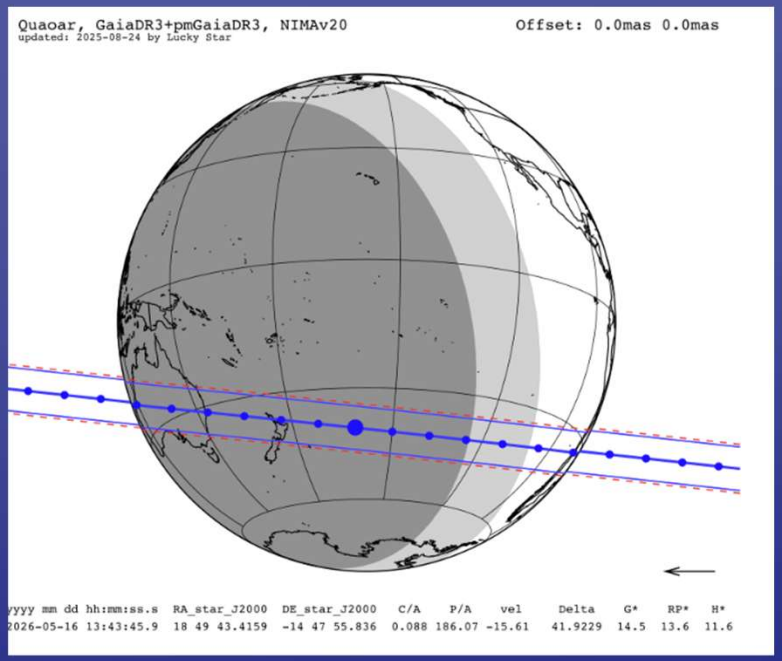


Figure 2. Occultation path to be expected for the ≈3.1 mag fainter companion of the primary target star in case the northern speckle solution [2] is correct thus shifting the shadow path to southern Africa. The left panel shows the ground track for the (136108) Haumea main body, the right panel for the rings. Created with Occult 4.2024.2.2 [3].

From JOA 2026-2



Date	Sat. 16 May. 2026 13:43:45
Star position (ICRF)	18 49 43.4159 -14 47 55.836
C/A	0.088 arcsec
P/A	186.07 °
velocity	-15.61 km/s
Geocentric distance Δ	41.9229 au
G mag*	14.5
J mag*	13.6
H mag*	11.6
Magnitude drop	4.2
Uncertainty in time	7.9 sec
Uncertainty in C/A	2.2 mas
Uncertainty in projected distance	68.1 km
Probability of occultation on centrality	100.0%
Maximum duration	71.1 sec
Moon distance to the object	128.0°
Fraction of illuminated Moon	0.3 %
Solar elongation	132.7°

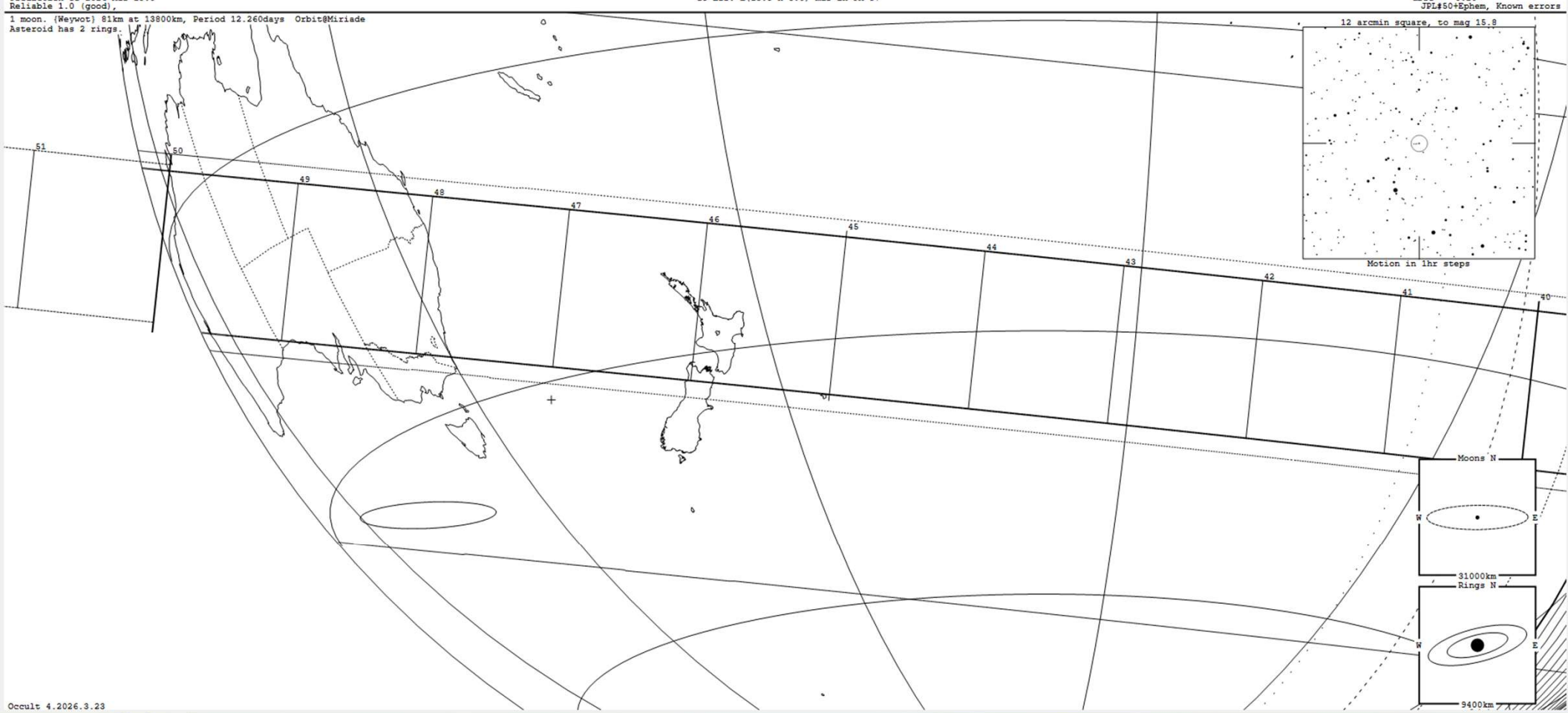
50000 Quaoar occults UCAC4 377-138486 on 2026 May 16 from 13h 36m to 13h 51m UT

Star: (Dia < 0.1 mas)
Mv 14.8; Mr 13.8; [Mb 15.7]
RA = 18 49 43.4159 (astrometric)
Dec = -14 47 55.836
[of Date: 18 51 15, -14 46 9]
Prediction of 2026 Mar 29.0
Reliable 1.0 (good),

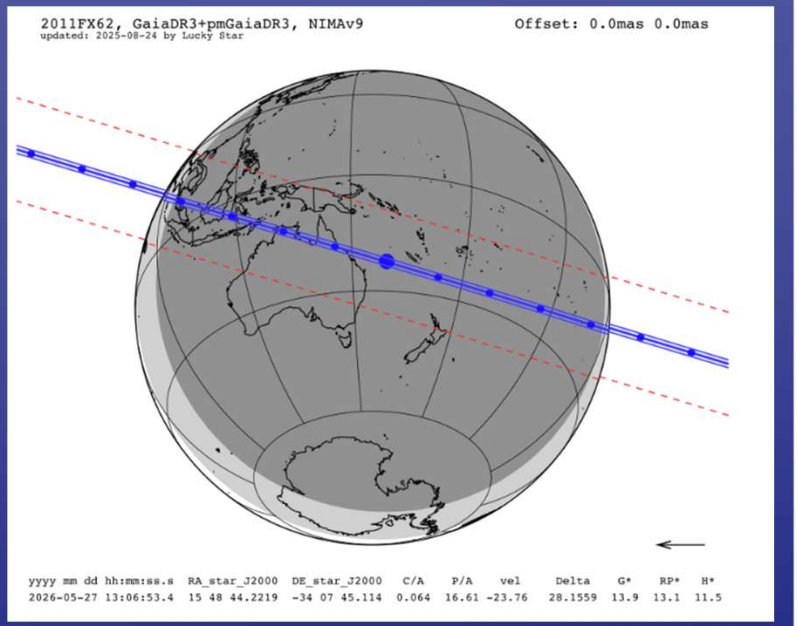
Durations: Max = 69.6 secs
1km = 0.064 secs, 1mas = 1.9 secs
Mag Drop: 4.1 [98%]v
Sun : Dist = 133°
Moon: Dist = 128°, illum = 0%
1σ Err: ±(15.3 x 3.0) mas in PA 87°

Asteroid:
Mag = 18.8
Dia = 1086 ±6km, 36 mas
Parallax = 0.210"
Hourly dRA =-0.125s
dDec = 0.20"
JPL#50+Ephem, Known errors

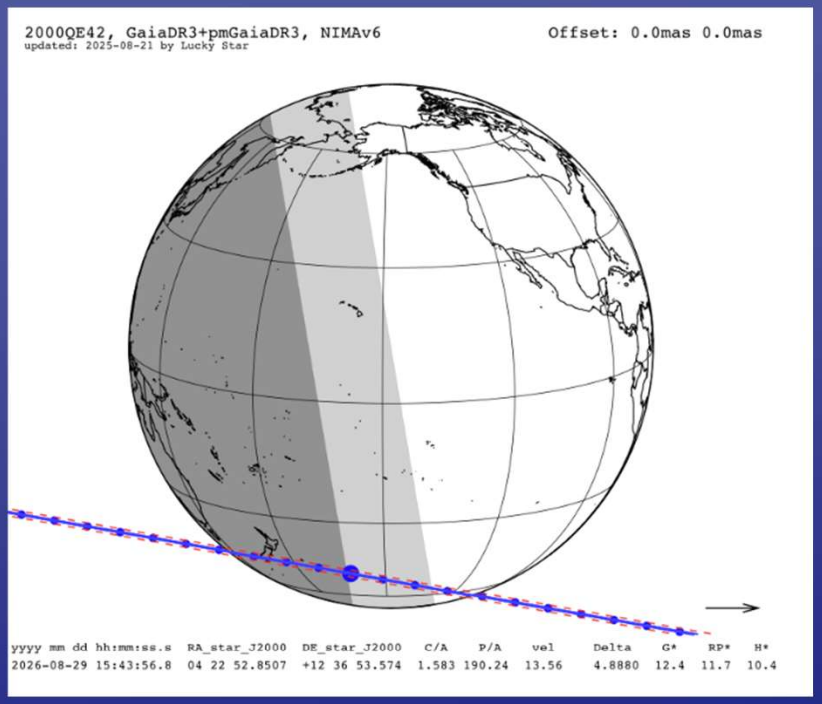
1 moon. {Weywot} 81km at 13800km, Period 12.260days Orbit@Miriade
Asteroid has 2 rings.



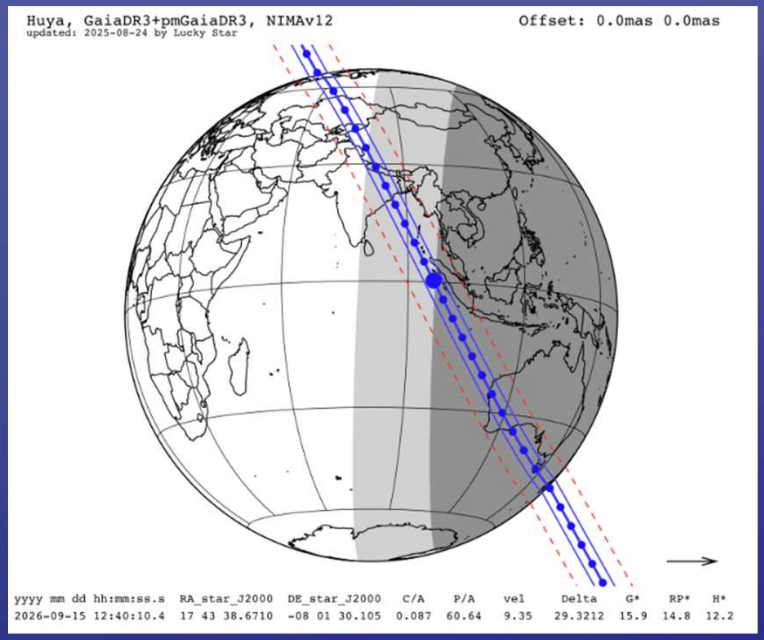
Occult 4.2026.3.23



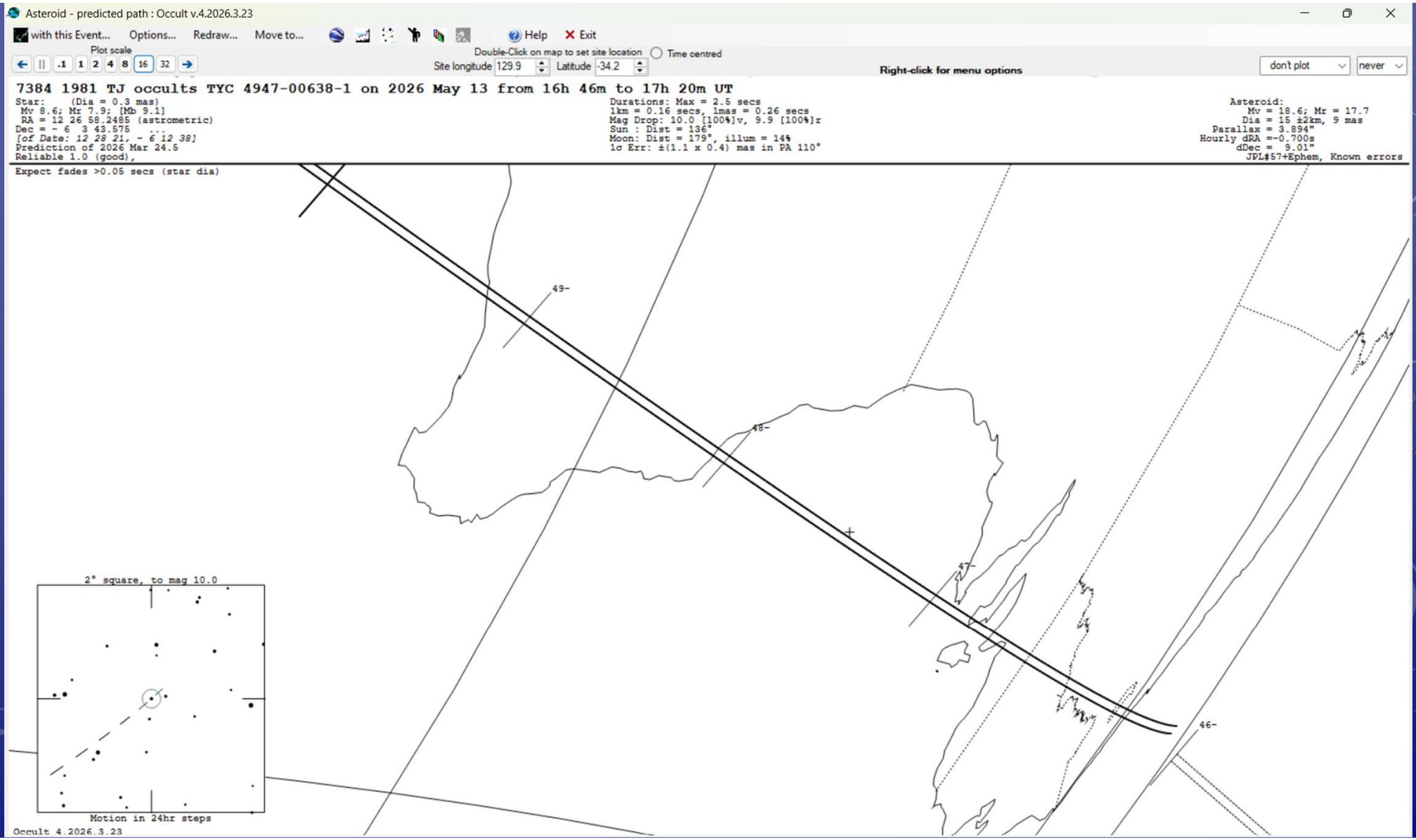
Date	Wed. 27 May. 2026 13:06:53
Star position (ICRF)	15 48 44.2219 -34 07 45.114
C/A	0.064 arcsec
P/A	16.61 °
velocity	-23.76 km/s
Geocentric distance Δ	28.1559 au
G mag*	13.9
J mag*	13.1
H mag*	11.5
Magnitude drop	8.2
Uncertainty in time	94.5 sec
Uncertainty in C/A	60.1 mas
Uncertainty in projected distance	1227.9 km
Probability of occultation on centrality	6.5%
Maximum duration	8.5 sec
Moon distance to the object	39.6°
Fraction of illuminated Moon	87.0 %
Solar elongation	165.8°

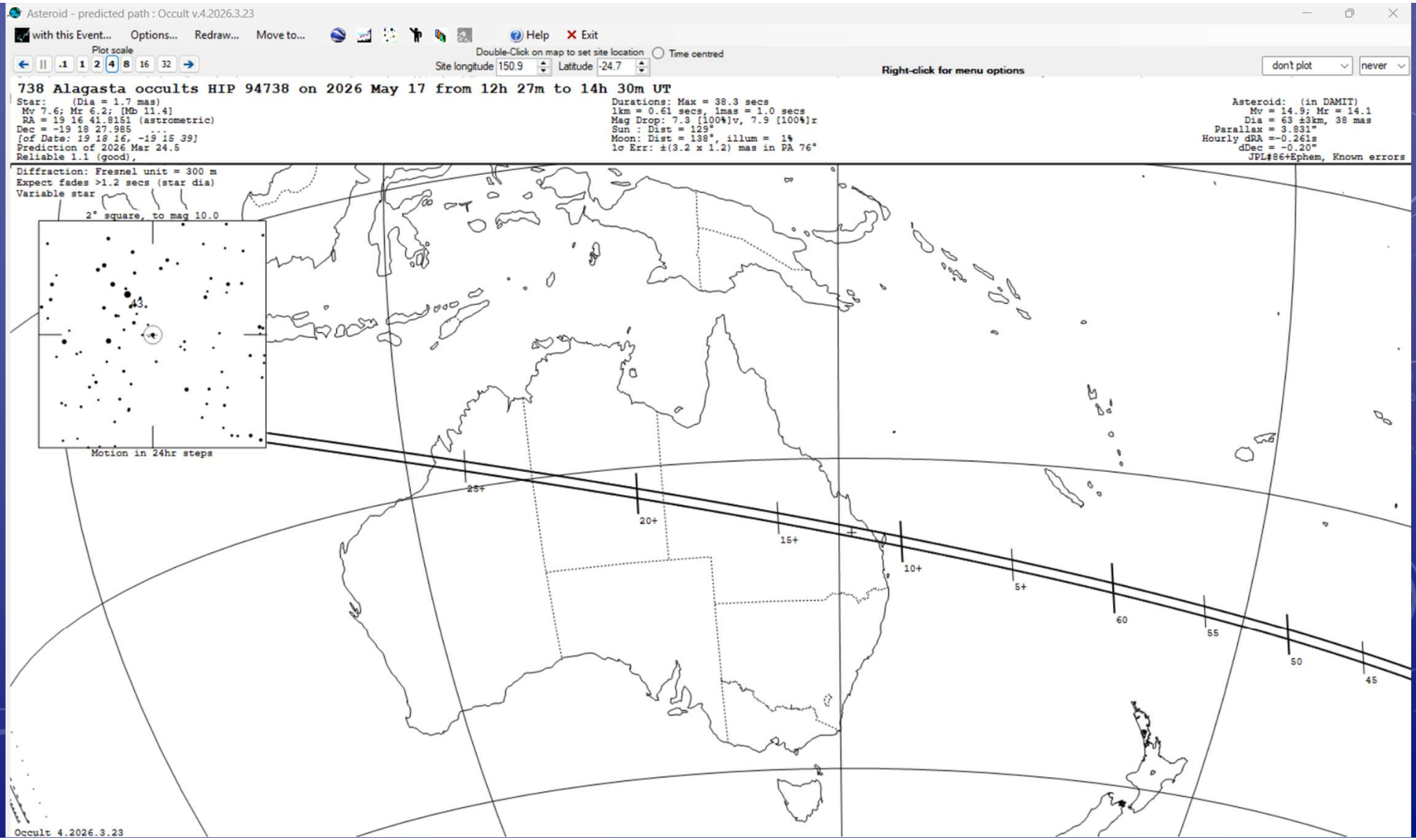


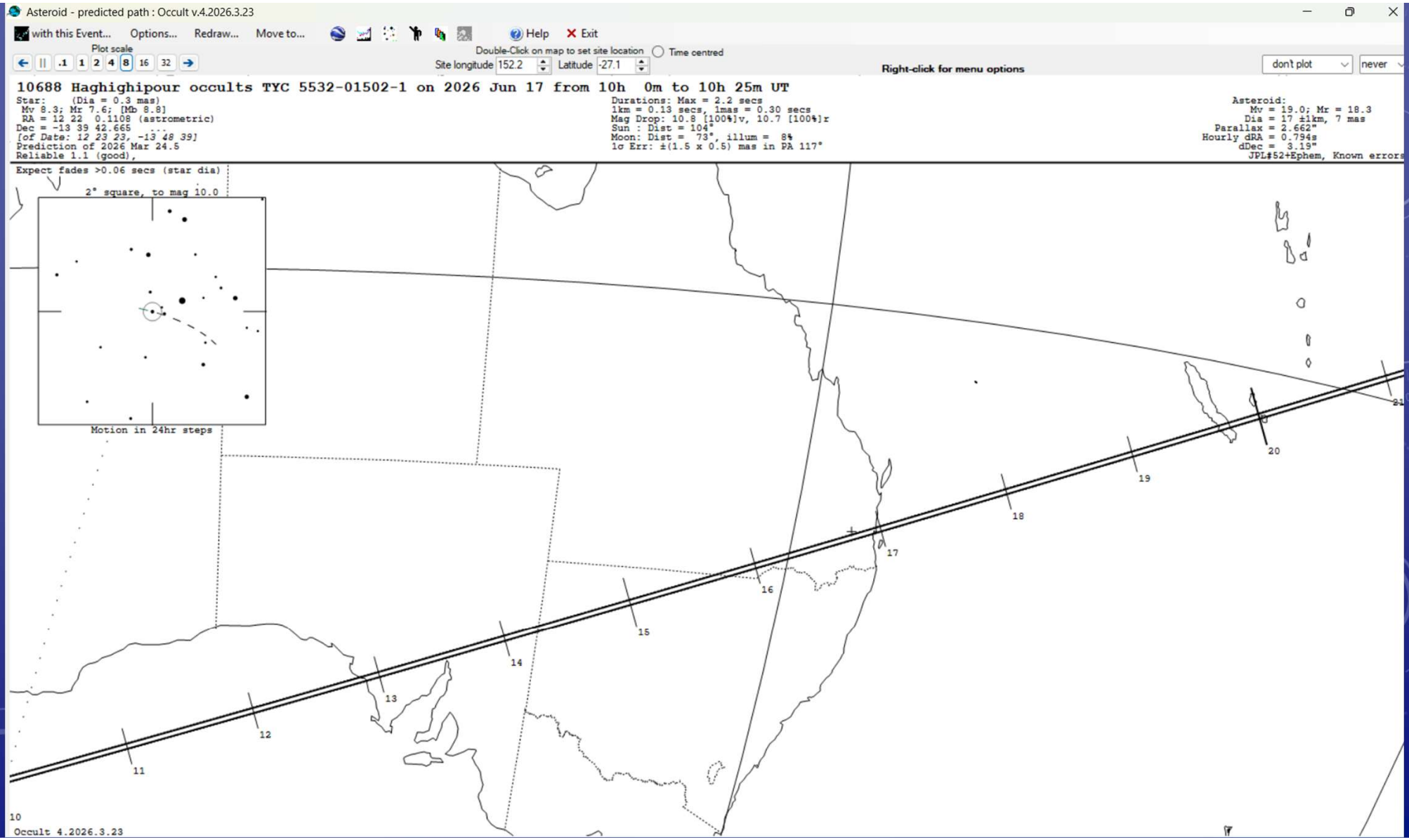
Date	Sat. 29 Aug. 2026 15:43:56
Star position (ICRF)	04 22 52.8507 +12 36 53.574
C/A	1.583 arcsec
P/A	190.24 °
velocity	13.56 km/s
Geocentric distance Δ	4.8880 au
G mag*	12.4
J mag*	11.7
H mag*	10.4
Magnitude drop	6.4
Uncertainty in time	13.5 sec
Uncertainty in C/A	19.0 mas
Uncertainty in projected distance	67.3 km
Probability of occultation on centrality	18.2%
Maximum duration	2.3 sec
Moon distance to the object	73.0°
Fraction of illuminated Moon	97.6 %
Solar elongation	89.9°

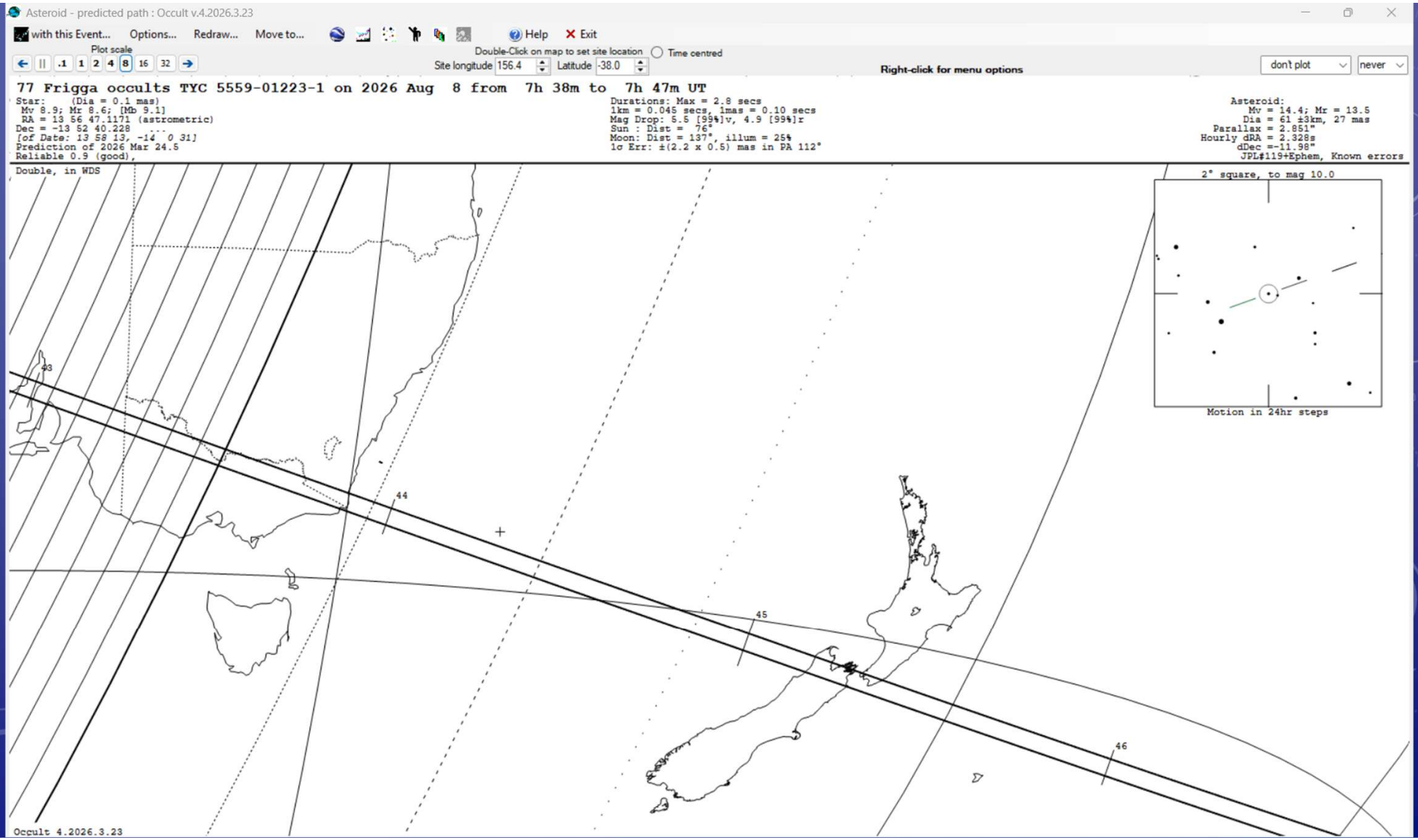


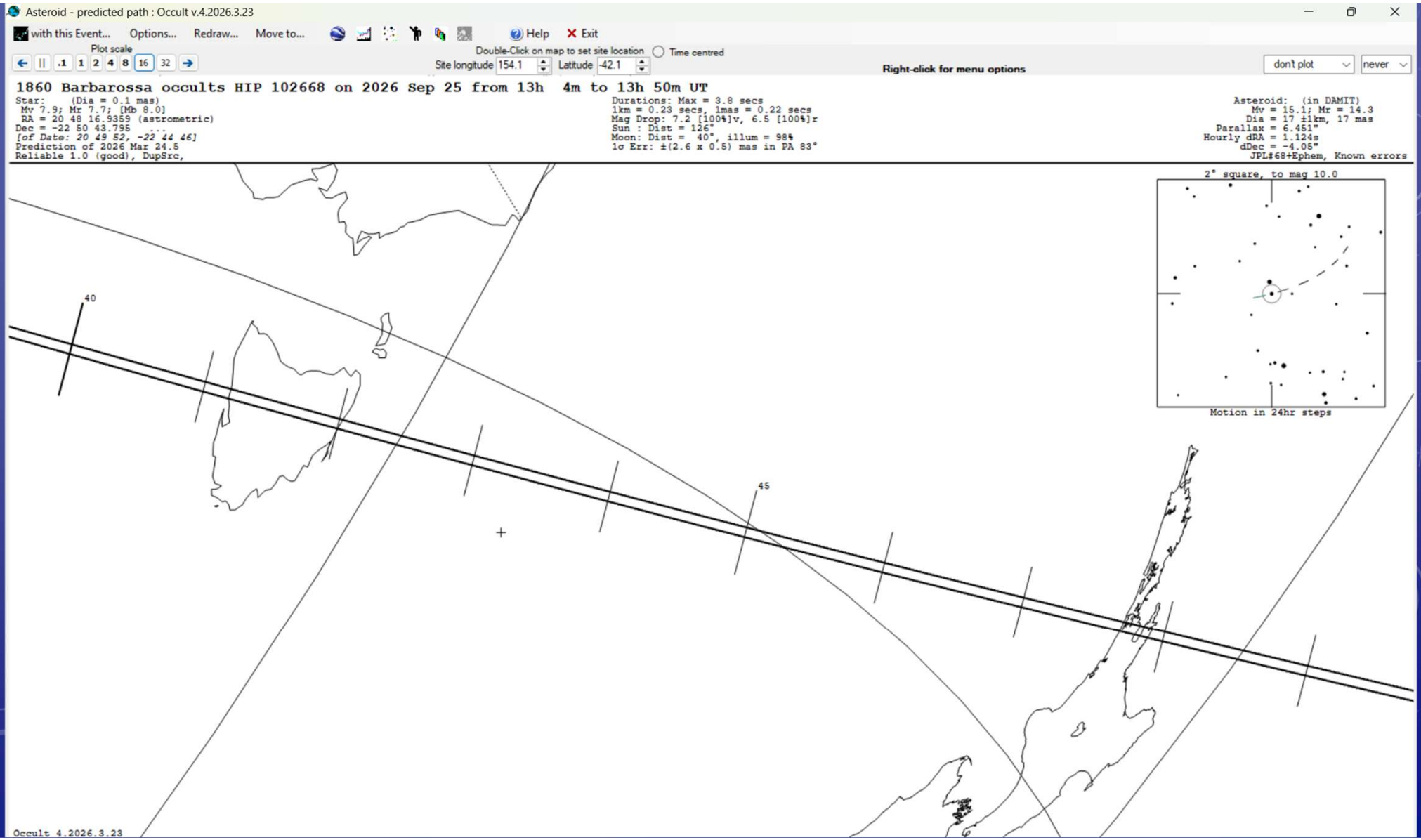
Date	Tue. 15 Sep. 2026 12:40:10
Star position (ICRF)	17 43 38.6710 -08 01 30.105
C/A	0.087 arcsec
P/A	60.64 °
velocity	9.35 km/s
Geocentric distance Δ	29.3212 au
G mag*	15.9
J mag*	14.8
H mag*	12.2
Magnitude drop	3.1
Uncertainty in time	45.0 sec
Uncertainty in C/A	18.8 mas
Uncertainty in projected distance	400.7 km
Probability of occultation on centrality	43.2%
Maximum duration	49.0 sec
Moon distance to the object	45.0°
Fraction of illuminated Moon	20.1 %
Solar elongation	93.3°

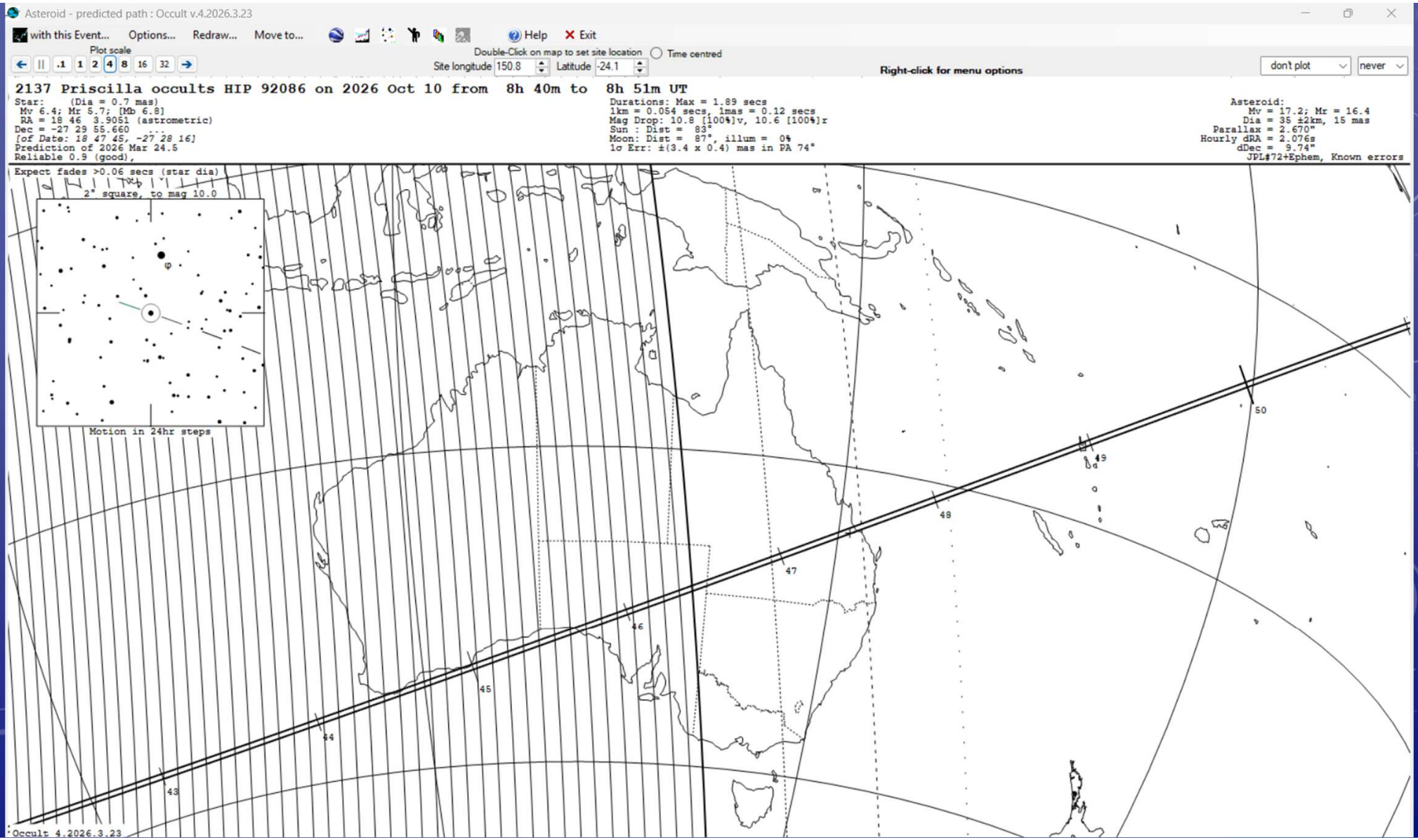

Asteroid - predicted path : Occult v.4.2026.3.23
with this Event...
Options...
Redraw...
Move to...
Help
Exit
Plot scale
.1 1 2 4 8 16 32
Double-Click on map to set site location
Time centred
Site longitude 129.9
Latitude -34.2
Right-click for menu options
don't plot
never
7384 1981 TJ occults TYC 4947-00638-1 on 2026 May 13 from 16h 46m to 17h 20m UT
Star: (Dia = 0.3 mas)
Mv 8.6; Mr 7.9; [Mb 9.1]
RA = 12 26 58.2485 (astrometric)
Dec = - 6 3 43.575
[of Date: 12 28 21, - 6 12 38]
Prediction of 2026 Mar 24.5
Reliable 1.0 (good),
Durations: Max = 2.5 secs
1km = 0.16 secs, 1mas = 0.26 secs
Mag Drop: 10.0 [100%]v, 9.9 [100%]r
Sun : Dist = 136°
Moon: Dist = 179°, illum = 14%
1σ Err: ±(1.1 x 0.4) mas in PA 110°
Asteroid:
Mv = 18.6; Mr = 17.7
Dia = 15 ±2km, 9 mas
Parallax = 3.894"
Hourly dRA =-0.700s
dDec = 9.01"
JPL#57+Ephem, Known errors
Expect fades >0.05 secs (star dia)
49-
48-
47-
46-
2° square, to mag 10.0
Motion in 24hr steps
Occult 4.2026.3.23


Asteroid - predicted path : Occult v.4.2026.3.23
with this Event...
Options...
Redraw...
Move to...
Help
Exit
Plot scale
.1 1 2 4 8 16 32
Double-Click on map to set site location
Time centred
Site longitude 150.9
Latitude -24.7
Right-click for menu options
don't plot
never
738 Alagasta occults HIP 94738 on 2026 May 17 from 12h 27m to 14h 30m UT
Star: (Dia = 1.7 mas)
Mv 7.6; Mr 6.2; [Mb 11.4]
RA = 19 16 41.8151 (astrometric)
Dec = -19 18 27.985
[of Date: 19 18 16, -19 15 39]
Prediction of 2026 Mar 24.5
Reliable 1.1 (good),
Durations: Max = 38.3 secs
1km = 0.61 secs, 1mas = 1.0 secs
Mag Drop: 7.3 [100%]v, 7.9 [100%]r
Sun : Dist = 129°
Moon: Dist = 138°, illum = 1%
1σ Err: ±(3.2 x 1.2) mas in PA 76°
Asteroid: (in DAMIT)
Mv = 14.9; Mr = 14.1
Dia = 63 ±3km, 38 mas
Parallax = 3.831"
Hourly dRA =-0.261s
dDec = -0.20"
JPL#86+Ephem, Known errors
Diffraction: Fresnel unit = 300 m
Expect fades >1.2 secs (star dia)
Variable star
2° square, to mag 10.0
43
Motion in 24hr steps
25+
20+
15+
10+
5+
60
55
50
45
Occult 4.2026.3.23

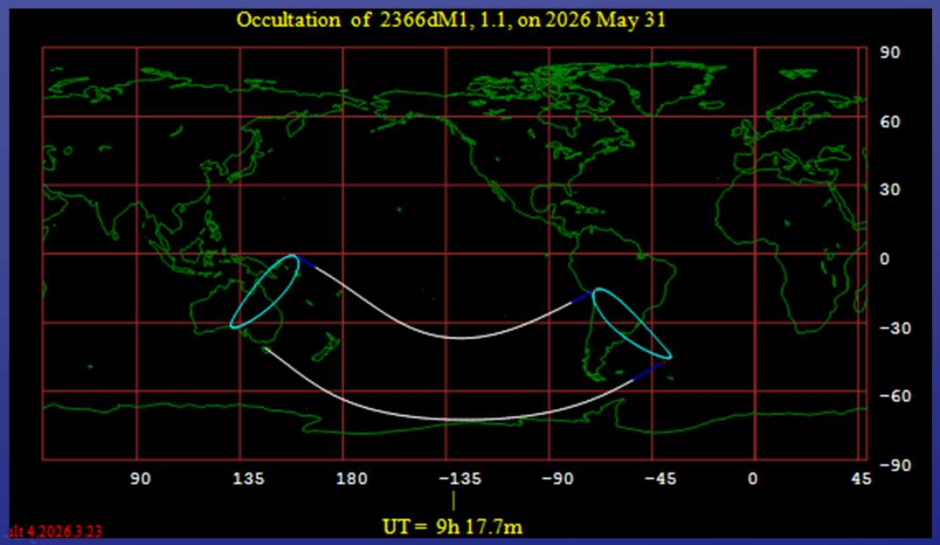

Asteroid - predicted path : Occult v.4.2026.3.23
with this Event...
Options...
Redraw...
Move to...
Help
Exit
Plot scale
.1 1 2 4 8 16 32
Double-Click on map to set site location
Time centred
Site longitude 152.2
Latitude -27.1
Right-click for menu options
don't plot
never
10688 Haghighipour occults TYC 5532-01502-1 on 2026 Jun 17 from 10h 0m to 10h 25m UT
Star: (Dia = 0.3 mas)
Mv 8.3; Mr 7.6; [Mb 8.8]
RA = 12 22 0.1108 (astrometric)
Dec = -13 39 42.665 ...
[of Date: 12 23 23, -13 48 39]
Prediction of 2026 Mar 24.5
Reliable 1.1 (good),
Durations: Max = 2.2 secs
1km = 0.13 secs, 1mas = 0.30 secs
Mag Drop: 10.8 [100%]v, 10.7 [100%]r
Sun : Dist = 104°
Moon: Dist = 73°, illum = 8%
1σ Err: ±(1.5 x 0.5) mas in PA 117°
Asteroid:
Mv = 19.0; Mr = 18.3
Dia = 17 ±1km, 7 mas
Parallax = 2.662"
Hourly dRA = 0.794s
dDec = 3.19"
JPL#52+Ephem, Known errors
Expect fades >0.06 secs (star dia)
2° square, to mag 10.0
Motion in 24hr steps
11
12
13
14
15
16
17
18
19
20
21
10
Occult 4.2026.3.23

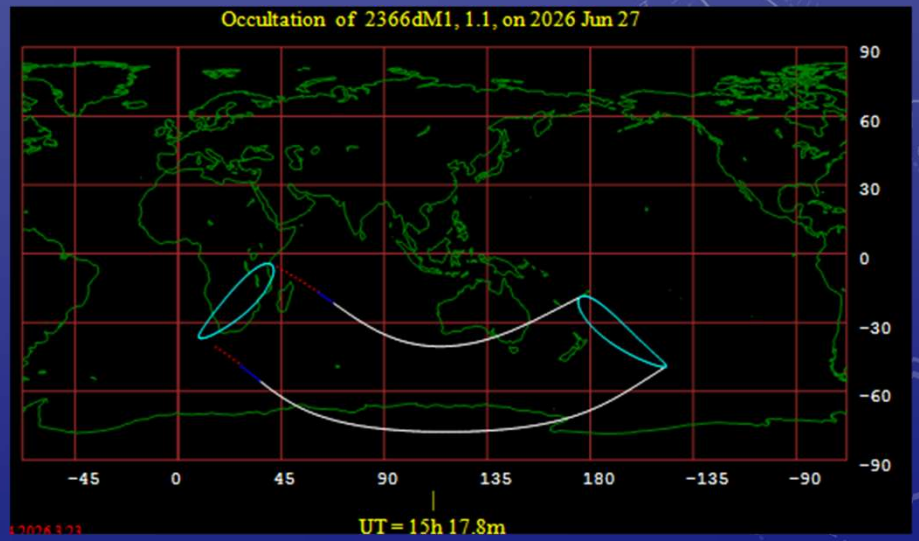

Asteroid - predicted path : Occult v.4.2026.3.23
with this Event...
Options...
Redraw...
Move to...
Help
Exit
Plot scale
.1 1 2 4 8 16 32
Double-Click on map to set site location
Time centred
Site longitude 156.4
Latitude -38.0
Right-click for menu options
don't plot
never
77 Frigga occults TYC 5559-01223-1 on 2026 Aug 8 from 7h 38m to 7h 47m UT
Star: (Dia = 0.1 mas)
Mv 8.9; Mr 8.6; [Mb 9.1]
RA = 13 56 47.1171 (astrometric)
Dec = -13 52 40.228
[of Date: 13 58 13, -14 0 31]
Prediction of 2026 Mar 24.5
Reliable 0.9 (good),
Durations: Max = 2.8 secs
1km = 0.045 secs, 1mas = 0.10 secs
Mag Drop: 5.5 [99%]v, 4.9 [99%]r
Sun : Dist = 76°
Moon: Dist = 137°, illum = 25%
1σ Err: ±(2.2 x 0.5) mas in PA 112°
Asteroid:
Mv = 14.4; Mr = 13.5
Dia = 61 ±3km, 27 mas
Parallax = 2.851"
Hourly dRA = 2.328s
dDec =-11.98"
JPL#119+Ephem, Known errors
Double, in WDS
2° square, to mag 10.0
Motion in 24hr steps
43
44
45
46
Occult 4.2026.3.23


Asteroid - predicted path : Occult v.4.2026.3.23
with this Event...
Options...
Redraw...
Move to...
Help
Exit
Plot scale
.1 1 2 4 8 16 32
Double-Click on map to set site location
Time centred
Site longitude 154.1
Latitude -42.1
Right-click for menu options
don't plot
never
1860 Barbarossa occults HIP 102668 on 2026 Sep 25 from 13h 4m to 13h 50m UT
Star: (Dia = 0.1 mas)
Mv 7.9; Mr 7.7; [Mb 8.0]
RA = 20 48 16.9359 (astrometric)
Dec = -22 50 43.795 ...
[of Date: 20 49 52, -22 44 46]
Prediction of 2026 Mar 24.5
Reliable 1.0 (good), DupSrc,
Durations: Max = 3.8 secs
1km = 0.23 secs, 1mas = 0.22 secs
Mag Drop: 7.2 [100%]v, 6.5 [100%]r
Sun : Dist = 126°
Moon: Dist = 40°, illum = 98%
1σ Err: ±(2.6 x 0.5) mas in PA 83°
Asteroid: (in DAMIT)
Mv = 15.1; Mr = 14.3
Dia = 17 ±1km, 17 mas
Parallax = 6.451"
Hourly dRA = 1.124s
dDec = -4.05"
JPL#68+Ephem, Known errors
2° square, to mag 10.0
Motion in 24hr steps
40
45
Occult 4.2026.3.23

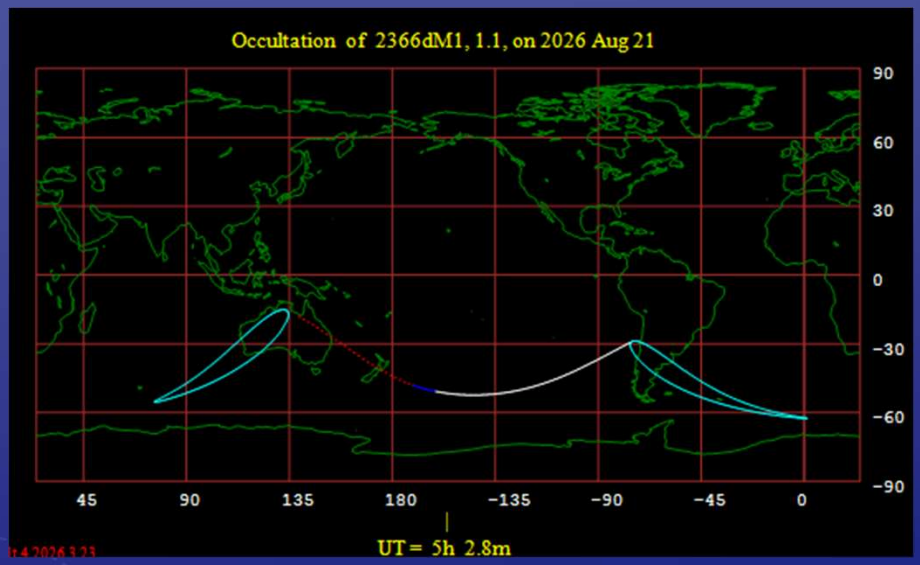

Asteroid - predicted path : Occult v.4.2026.3.23
with this Event...
Options...
Redraw...
Move to...
Help
Exit
Plot scale
.1 1 2 4 8 16 32
Double-Click on map to set site location
Time centred
Site longitude 150.8
Latitude -24.1
Right-click for menu options
don't plot
never
2137 Priscilla occults HIP 92086 on 2026 Oct 10 from 8h 40m to 8h 51m UT
Star: (Dia = 0.7 mas)
Mv 6.4; Mr 5.7; [Mb 6.8]
RA = 18 46 3.9051 (astrometric)
Dec = -27 29 55.660
[of Date: 18 47 45, -27 28 16]
Prediction of 2026 Mar 24.5
Reliable 0.9 (good),
Durations: Max = 1.89 secs
1km = 0.054 secs, 1mas = 0.12 secs
Mag Drop: 10.8 [100%]v, 10.6 [100%]r
Sun : Dist = 83°
Moon: Dist = 87°, illum = 0%
1σ Err: ±(3.4 x 0.4) mas in PA 74°
Asteroid:
Mv = 17.2; Mr = 16.4
Dia = 35 ±2km, 15 mas
Parallax = 2.670"
Hourly dRA = 2.076s
dDec = 9.74"
JPL#72+Ephem, Known errors
Expect fades >0.06 secs (star dia)
2° square, to mag 10.0
φ
Motion in 24hr steps
50
49
48
47
46
45
44
43
Occult 4.2026.3.23

MORE OCCULTATIONS OF ANTARES

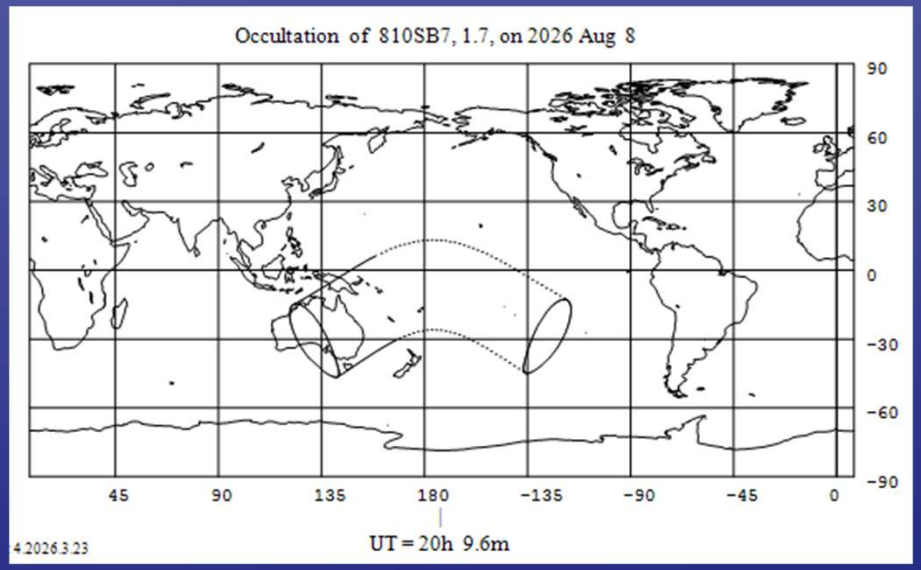


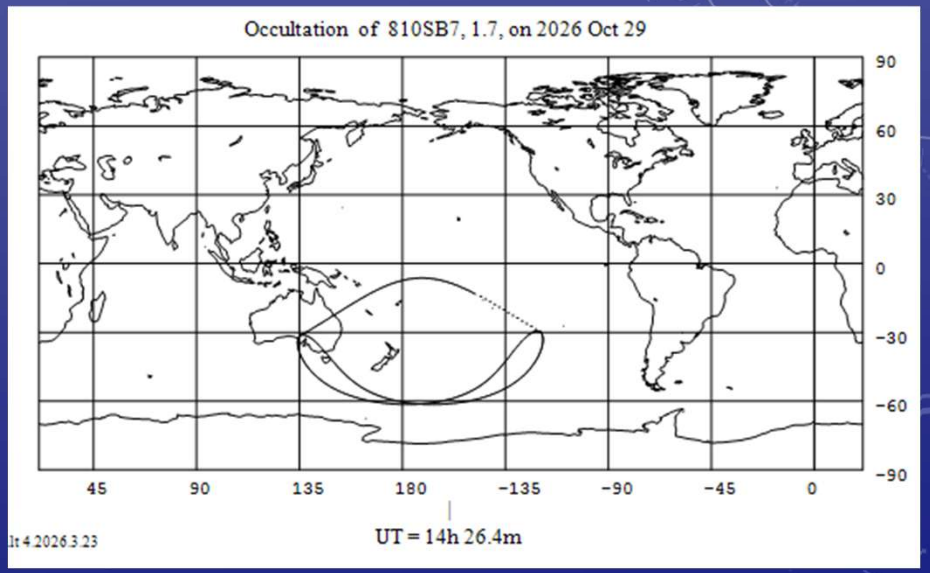


ANOTHER ANTARES OCCULTATION

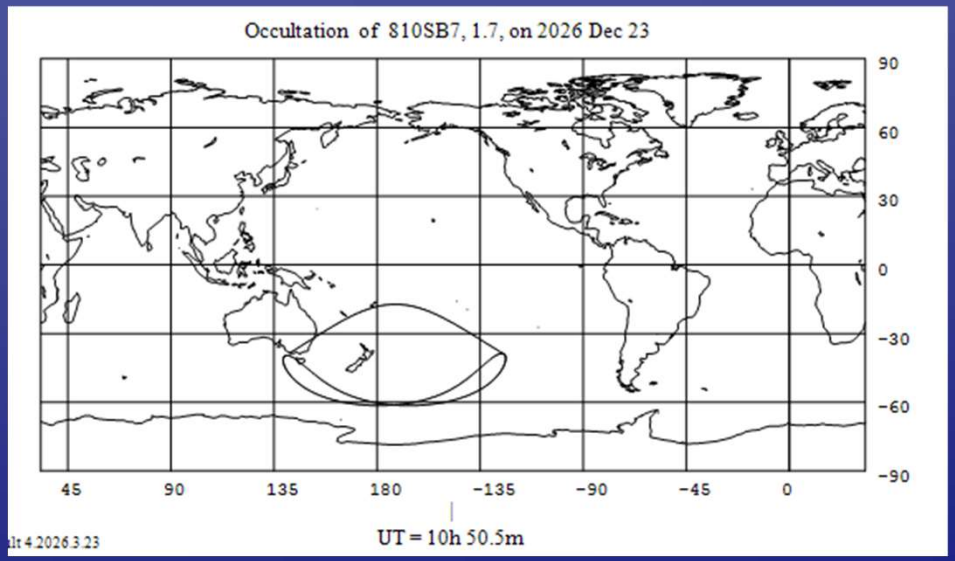


LUNAR OCCULTATIONS OF EL NATH (BETA TAURI)

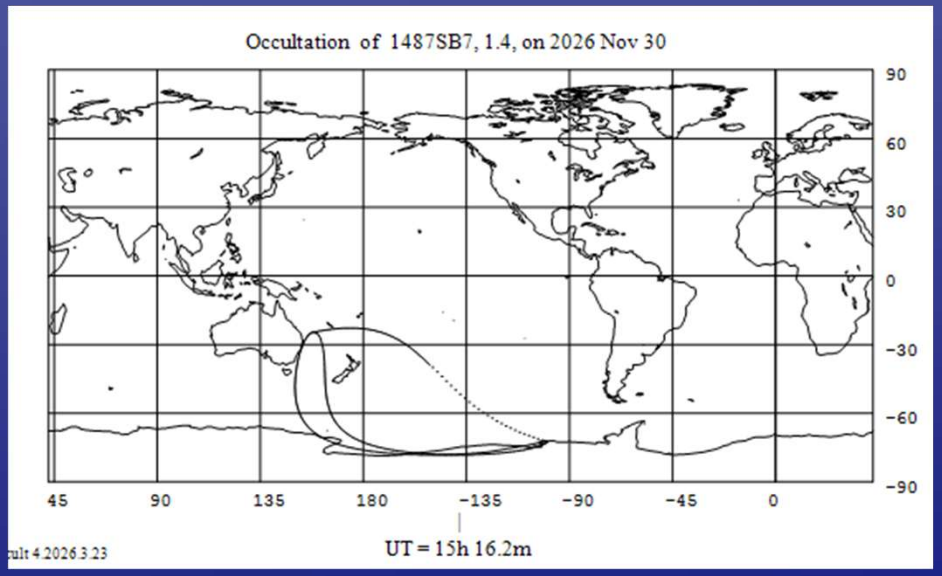




ANOTHER OCCULTATION OF EL NATH



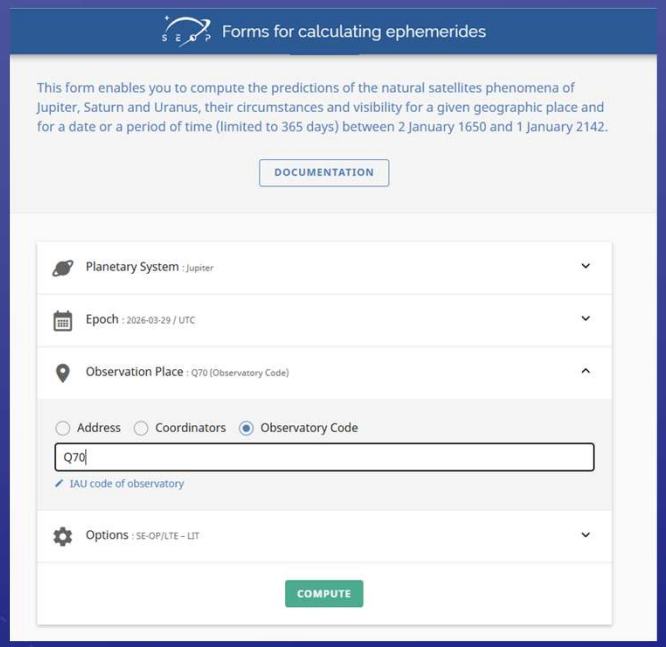
LUNAR OCCULTATION OF REGULUS

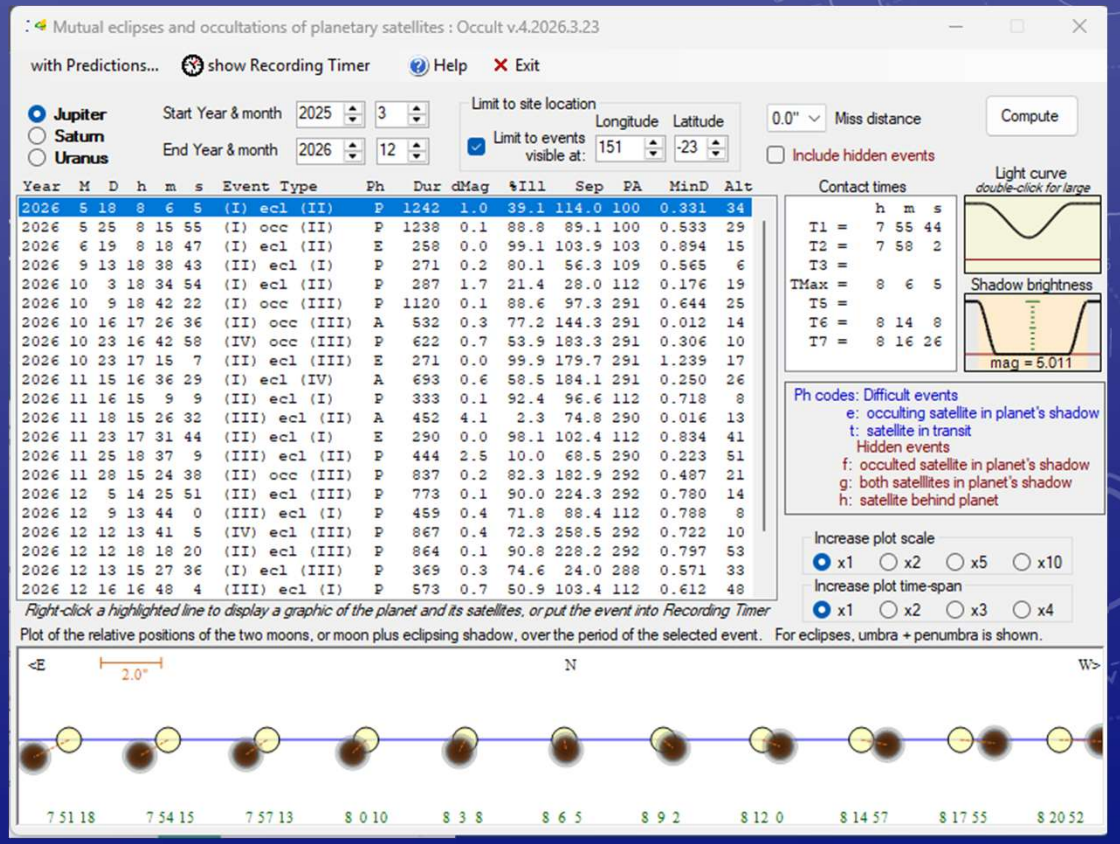


JOVIAN SATELLITE MUTUAL EVENTS

https://www.imcce.fr/recherche/campagnes-observations/phemus/phemu

PREDICTIONS FOR JOVIAN MUTUAL EVENTS





https://ssp.imcce.fr/forms/satellites-events


QUESTIONS