

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2032-12-17T16:10:43.170
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Gaia source ID : 3424832313679391488
 2Mass ID (if available) : 05565699+2339018

ICRS Star Coord at Epoch: 05h 56m 57.00502s +23:39:01.44119s

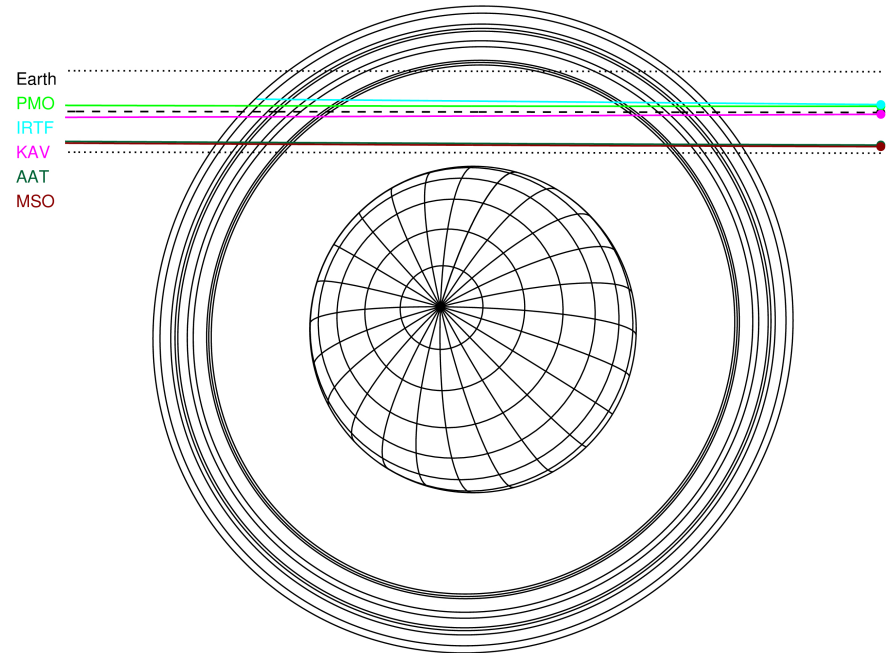
RUWE (>1.4 is poor) : 1.64
 K magnitude : 13.309
 G magnitude : 15.929
 RP magnitude : 15.052
 BP magnitude : 16.455
 DUPflag : 0
 Distance (au) : 18.038
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -23.36
 Sun-Target sep (deg) : 176.51
 Sun-Moon sep (deg) : 7.91
 B (ring opening deg) : 75.93
 PA of pole (deg) : 55.12

| # | a(km) | ring |
|----|---------|---------|
| 1 | 41837.2 | 6 |
| 2 | 42235.0 | 5 |
| 3 | 42571.2 | 4 |
| 4 | 44718.5 | alpha |
| 5 | 45661.1 | beta |
| 6 | 47176.1 | eta |
| 7 | 47626.3 | gamma |
| 8 | 48300.3 | delta |
| 9 | 50026.7 | lambda |
| 10 | 51149.4 | epsilon |



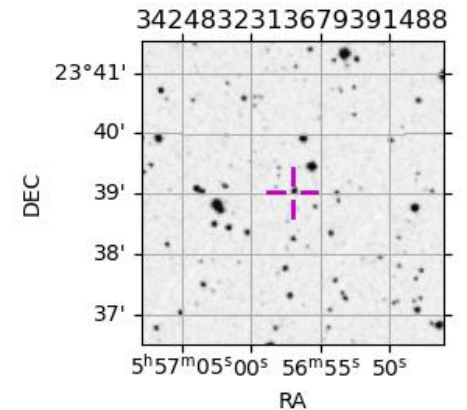
2032-12-17T16:10:43.1700 ex: 05 56 57.0050 s: +23 39 01.441 C/A 2.6111 PA 179.93 deg v_sky -23.36 km/s D 18.04 AU
 Credit: Styled after SORA/Lucky Star

Uranus 2032-12-17T16:10:43 K13.31 G15.93 XRgt

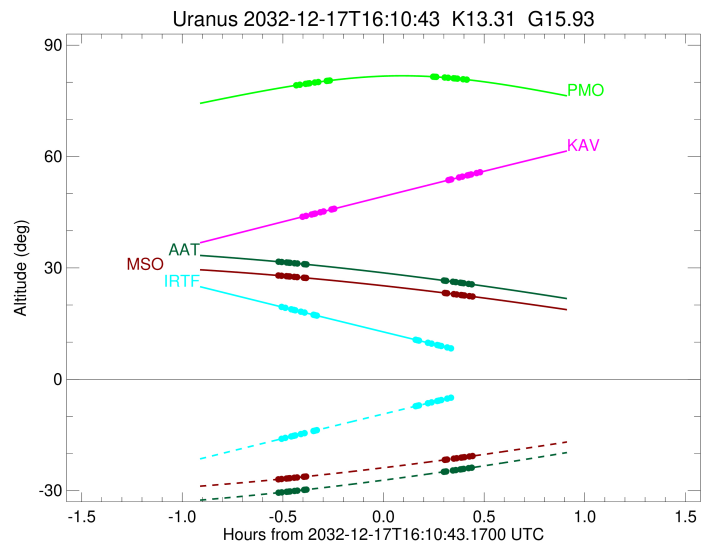
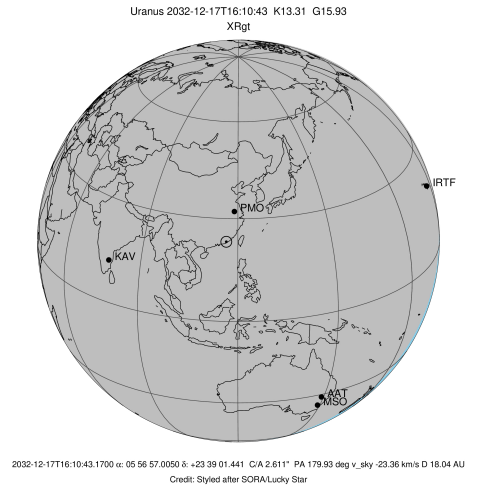


Observable events with sun below -5 deg and altitude above 5 deg unblocked by planet

| Obs | Location | lat | Elon | Rings I | Planet | Rings E | Observed Events Interval | OEcode |
|------|-----------------------|-------|-------|---------|--------|---------|-----------------------------|--------|
| PIC | Pic du Midi | 42.9 | 0.1 | | | | | PnnRnn |
| PAL | Palomar Mt (200") | 33.4 | 243.1 | | | | | PnnRnn |
| PMO | Purple Mtn Obs. Nanki | 32.1 | 118.8 | +++++ | | +++++ | DEC 17 15:44 - DEC 17 16:35 | PnnRie |
| KPNO | Kitt Peak Natl Obs | 32.0 | 248.4 | | | | | PnnRnn |
| MCD | McDonald Obs. 2.7m | 30.7 | 256.0 | | | | | PnnRnn |
| TEN | Teide Obs./Tenerife | 28.3 | 343.5 | | | | | PnnRnn |
| IRTF | Mauna Kea/IRTF | 19.8 | 204.5 | +++++ | | +++++ | DEC 17 15:40 - DEC 17 16:29 | PnnRie |
| KAV | Kavalur Observatory | 12.6 | 78.8 | +++++ | | +++++ | DEC 17 15:46 - DEC 17 16:39 | PnnRie |
| RIO | Rio de Janeiro | -22.9 | 316.8 | | | | | PnnRnn |
| ESO | European Southern Obs | -29.3 | 289.3 | | | | | PnnRnn |
| AAT | Siding Spring (AAT) | -31.3 | 149.1 | +++++ | | +++++ | DEC 17 15:39 - DEC 17 16:37 | PnnRie |
| SAAO | So. Afr. Astro. Obs. | -32.4 | 20.8 | | | | | PnnRnn |
| MSO | Mt. Stromlo Observato | -35.3 | 149.0 | +++++ | | +++++ | DEC 17 15:39 - DEC 17 16:37 | PnnRie |



target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2032-12-17T16:10:48.980
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : PMO
 Location : Purple Mtn Obs. Nanking
 Latitude (deg) : 32.06667
 E. Longitude (deg) : 118.82089
 Altitude (km) : 0.364
 Gaia source ID : 3424832313679391488
 2Mass ID (if available) : 05565699+2339018
 ICRS Star Coord at Epoch: 05h 56m 57.00502s +23:39:01.44119s
 RUWE (>1.4 is poor) : 1.64
 K magnitude : 13.309
 G magnitude : 15.929
 RP magnitude : 15.052
 BP magnitude : 16.455
 DUPflag : 0
 Distance (au) : 18.038
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -23.36
 Sun-Target sep (deg) : 176.51
 Sun-Moon sep (deg) : 8.14
 B (ring opening deg) : 75.93
 PA of pole (deg) : 55.12
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.674
 C/A sky separation (km) : 34984.0
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 ura111.bsp
 IAU_URANUS_for_RINGFIT.tpc
 vgr2.ura111.bsp
 ura161.bsp
 vgr2.ura161.bsp
 peph.ura160.bsp
 earthstns_itr93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk



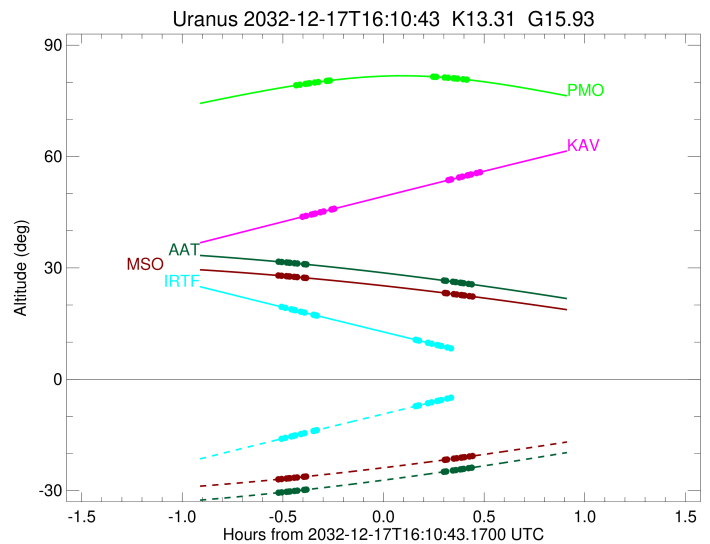
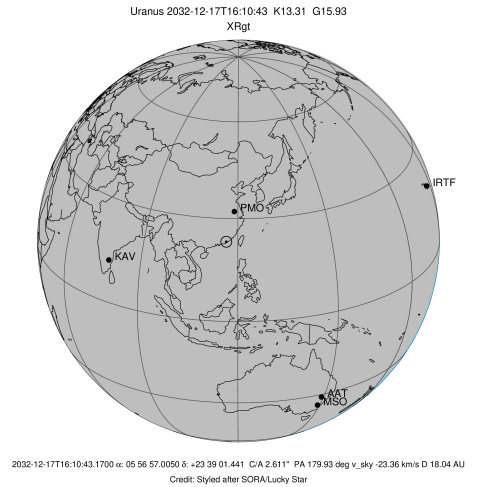
| Ring | I/E | UTC | b? | alt | alt-sun | radius | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|----|-------|---------|----------|--------|---------|--------------|
| epsilon | I | 2032-12-17T15:44:28.123 | | 79.16 | -80.73 | 51411.35 | -17.71 | | |
| lambda | I | 2032-12-17T15:45:47.747 | | 79.35 | -80.84 | 50026.71 | -17.16 | | |
| delta | I | 2032-12-17T15:47:30.194 | | 79.58 | -80.97 | 48300.35 | -16.53 | | |
| gamma | I | 2032-12-17T15:48:11.088 | | 79.67 | -81.02 | 47629.96 | -16.25 | | |
| eta | I | 2032-12-17T15:48:39.171 | | 79.73 | -81.05 | 47176.12 | -16.06 | | |
| beta | I | 2032-12-17T15:50:14.470 | | 79.94 | -81.15 | 45678.16 | -15.36 | | |
| alpha | I | 2032-12-17T15:51:15.814 | | 80.07 | -81.21 | 44750.70 | -14.87 | | |
| 4 | I | 2032-12-17T15:53:49.706 | | 80.37 | -81.34 | 42563.64 | -13.49 | | |
| 5 | I | 2032-12-17T15:54:08.201 | | 80.41 | -81.35 | 42315.25 | -13.34 | | |
| 6 | I | 2032-12-17T15:54:45.813 | | 80.48 | -81.37 | 41820.56 | -12.99 | | |

No planet occultations

| | | | | | | | | | |
|---------|---|-------------------------|--|-------|--------|----------|-------|--|--|
| 6 | E | 2032-12-17T16:25:33.070 | | 81.50 | -79.92 | 41865.45 | 12.99 | | |
| 5 | E | 2032-12-17T16:26:03.189 | | 81.48 | -79.86 | 42266.90 | 13.34 | | |
| 4 | E | 2032-12-17T16:26:21.871 | | 81.46 | -79.82 | 42527.06 | 13.49 | | |
| alpha | E | 2032-12-17T16:28:56.400 | | 81.29 | -79.50 | 44716.20 | 14.87 | | |
| beta | E | 2032-12-17T16:29:58.655 | | 81.21 | -79.36 | 45654.07 | 15.36 | | |
| eta | E | 2032-12-17T16:31:35.452 | | 81.08 | -79.15 | 47176.12 | 16.07 | | |
| gamma | E | 2032-12-17T16:32:03.095 | | 81.04 | -79.08 | 47622.85 | 16.26 | | |
| delta | E | 2032-12-17T16:32:44.420 | | 80.98 | -78.99 | 48300.35 | 16.53 | | |
| lambda | E | 2032-12-17T16:34:26.853 | | 80.82 | -78.74 | 50026.71 | 17.17 | | |
| epsilon | E | 2032-12-17T16:35:48.180 | | 80.69 | -78.55 | 51441.57 | 17.71 | | |

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2032-12-17T16:06:16.560
Event type          : XRgt
: No Uranus occs
: Ring occs: geocentric, topocentric
Observer code       : IRTF
Location            : Mauna Kea/IRTF
Latitude (deg)      : 19.82622
E. Longitude (deg) : 204.52800
Altitude (km)       : 4.168
Gaia source ID      : 3424832313679391488
2Mass ID (if available) : 05565699+2339018
ICRS Star Coord at Epoch: 05h 56m 57.00502s +23:39:01.44119s
RUWE (>1.4 is poor) : 1.64
K magnitude          : 13.309
G magnitude          : 15.929
RP magnitude         : 15.052
BP magnitude         : 16.455
DUPflag             : 0
Distance (au)       : 18.038
f0 (km)             : 0.000
g0 (km)             : 0.000
skyplane vel. (km/s) : -23.36
Sun-Target sep (deg) : 176.51
Sun-Moon sep (deg)  : 7.45
B (ring opening deg) : 75.93
PA of pole (deg)    : 55.12
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 2.734
C/A sky separation (km) : 35769.7
NAIF SPICE kernels  : RAJobs_U111+rgf15.spk
URKALLvl1.spk
urall11.bsp
IAU_URANUS_for_RINGFIT.tpc
vgr2.urall11.bsp
ural161.bsp
vgr2.ural161.bsp
peph.ural160.bsp
earthstns_itr93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
    
```

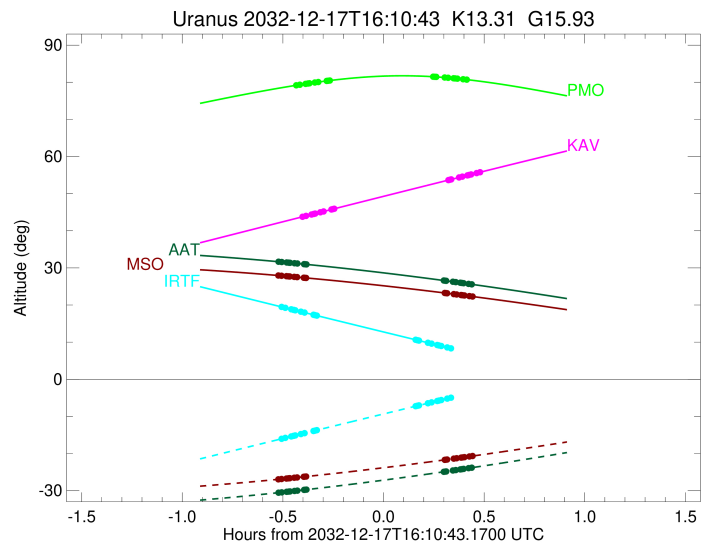
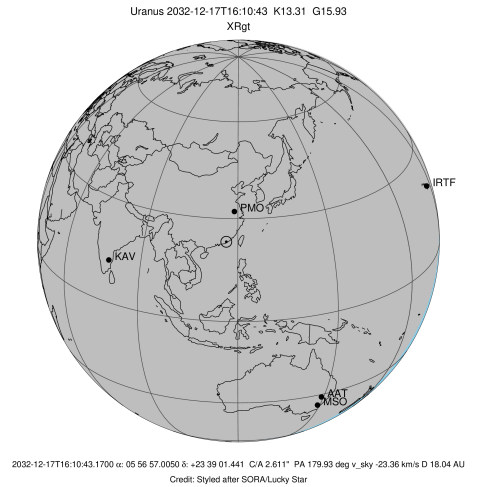


| Ring | I/E | UTC | b? | alt | alt-sun | radius | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|----|-------|---------|----------|--------|---------|--------------|
| epsilon | I | 2032-12-17T15:40:05.059 | | 19.55 | -16.09 | 51415.52 | -17.14 | | |
| lambda | I | 2032-12-17T15:41:27.686 | | 19.24 | -15.79 | 50026.71 | -16.57 | | |
| delta | I | 2032-12-17T15:43:14.014 | | 18.84 | -15.39 | 48300.35 | -15.89 | | |
| gamma | I | 2032-12-17T15:43:56.583 | | 18.69 | -15.24 | 47629.89 | -15.60 | | |
| eta | I | 2032-12-17T15:44:25.856 | | 18.58 | -15.13 | 47176.12 | -15.40 | | |
| beta | I | 2032-12-17T15:46:05.537 | | 18.21 | -14.76 | 45677.95 | -14.64 | | |
| alpha | I | 2032-12-17T15:47:09.995 | | 17.97 | -14.52 | 44750.47 | -14.12 | | |
| 4 | I | 2032-12-17T15:49:53.192 | | 17.36 | -13.92 | 42562.46 | -12.63 | | |
| 5 | I | 2032-12-17T15:50:12.844 | | 17.29 | -13.85 | 42315.23 | -12.46 | | |
| 6 | I | 2032-12-17T15:50:53.107 | | 17.14 | -13.70 | 41821.68 | -12.08 | | |

No planet occultations

| | | | | | | | | | |
|---------|---|-------------------------|--|-------|--------|----------|-------|--|--|
| 6 | E | 2032-12-17T16:20:19.503 | | 10.63 | -7.25 | 41864.05 | 12.05 | | |
| 5 | E | 2032-12-17T16:20:52.291 | | 10.51 | -7.13 | 42269.95 | 12.43 | | |
| 4 | E | 2032-12-17T16:21:12.095 | | 10.44 | -7.06 | 42527.51 | 12.60 | | |
| alpha | E | 2032-12-17T16:23:56.454 | | 9.84 | -6.46 | 44717.43 | 14.08 | | |
| beta | E | 2032-12-17T16:25:02.038 | | 9.60 | -6.23 | 45654.73 | 14.60 | | |
| eta | E | 2032-12-17T16:26:43.581 | | 9.23 | -5.86 | 47176.12 | 15.34 | | |
| gamma | E | 2032-12-17T16:27:12.513 | | 9.12 | -5.75 | 47622.98 | 15.55 | | |
| delta | E | 2032-12-17T16:27:55.680 | | 8.97 | -5.60 | 48300.35 | 15.84 | | |
| lambda | E | 2032-12-17T16:29:42.414 | | 8.58 | -5.21 | 50026.71 | 16.50 | | |
| epsilon | E | 2032-12-17T16:31:07.374 | | 8.27 | -4.91x | 51449.44 | 17.07 | | |

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2032-12-17T16:13:43.820
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : KAV
 Location : Kavalur Observatory
 Latitude (deg) : 12.57556
 E. Longitude (deg) : 78.83167
 Altitude (km) : 0.722
 Gaia source ID : 3424832313679391488
 2Mass ID (if available) : 05565699+2339018
 ICRS Star Coord at Epoch: 05h 56m 57.00502s +23:39:01.44119s
 RUWE (>1.4 is poor) : 1.64
 K magnitude : 13.309
 G magnitude : 15.929
 RP magnitude : 15.052
 BP magnitude : 16.455
 DUPflag : 0
 Distance (au) : 18.038
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -23.36
 Sun-Target sep (deg) : 176.51
 Sun-Moon sep (deg) : 8.45
 B (ring opening deg) : 75.93
 PA of pole (deg) : 55.12
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.555
 C/A sky separation (km) : 33429.2
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 ural11.bsp
 IAU_URANUS_for_RINGFIT.tpc
 vgr2.ural11.bsp
 ural61.bsp
 vgr2.ural61.bsp
 peph.ural60.bsp
 earthstns_itr93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk

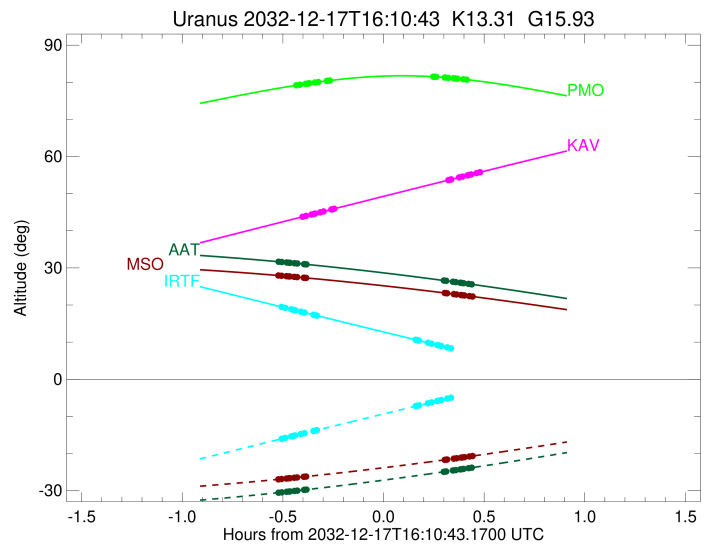
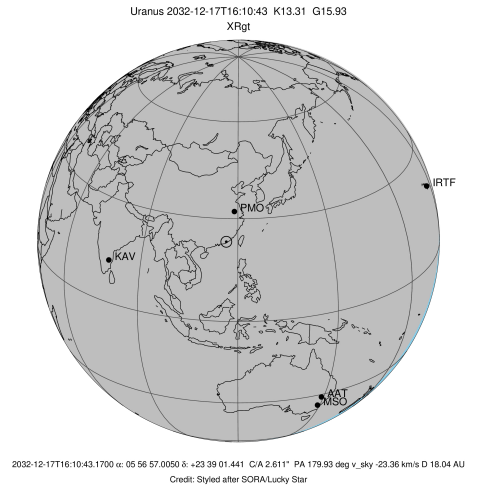


| Ring | I/E | UTC | b? | alt | alt-sun | radius | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|----|-------|---------|----------|--------|---------|--------------|
| epsilon | I | 2032-12-17T15:46:21.792 | | 43.72 | -47.22 | 51399.90 | -18.31 | | |
| lambda | I | 2032-12-17T15:47:37.999 | | 44.01 | -47.51 | 50026.71 | -17.82 | | |
| delta | I | 2032-12-17T15:49:16.355 | | 44.38 | -47.89 | 48300.35 | -17.27 | | |
| gamma | I | 2032-12-17T15:49:55.423 | | 44.53 | -48.03 | 47630.12 | -17.04 | | |
| eta | I | 2032-12-17T15:50:22.201 | | 44.64 | -48.14 | 47176.12 | -16.87 | | |
| beta | I | 2032-12-17T15:51:52.548 | | 44.98 | -48.48 | 45678.65 | -16.26 | | |
| alpha | I | 2032-12-17T15:52:50.301 | | 45.20 | -48.70 | 44751.20 | -15.85 | | |
| 4 | I | 2032-12-17T15:55:13.120 | | 45.74 | -49.24 | 42566.26 | -14.69 | | |
| 5 | I | 2032-12-17T15:55:30.332 | | 45.81 | -49.30 | 42315.10 | -14.57 | | |
| 6 | I | 2032-12-17T15:56:04.805 | | 45.94 | -49.43 | 41818.18 | -14.27 | | |

No planet occultations

| | | | | | | | | | |
|---------|---|-------------------------|--|-------|--------|----------|-------|--|--|
| 6 | E | 2032-12-17T16:30:06.026 | | 53.66 | -57.10 | 41867.63 | 14.30 | | |
| 5 | E | 2032-12-17T16:30:32.923 | | 53.76 | -57.20 | 42261.75 | 14.59 | | |
| 4 | E | 2032-12-17T16:30:50.368 | | 53.82 | -57.26 | 42526.48 | 14.72 | | |
| alpha | E | 2032-12-17T16:33:13.501 | | 54.36 | -57.79 | 44714.18 | 15.89 | | |
| beta | E | 2032-12-17T16:34:12.038 | | 54.58 | -58.01 | 45653.01 | 16.30 | | |
| eta | E | 2032-12-17T16:35:43.679 | | 54.92 | -58.35 | 47176.12 | 16.91 | | |
| gamma | E | 2032-12-17T16:36:09.951 | | 55.02 | -58.45 | 47622.64 | 17.08 | | |
| delta | E | 2032-12-17T16:36:49.354 | | 55.17 | -58.59 | 48300.35 | 17.32 | | |
| lambda | E | 2032-12-17T16:38:27.439 | | 55.53 | -58.95 | 50026.71 | 17.87 | | |
| epsilon | E | 2032-12-17T16:39:44.980 | | 55.82 | -59.24 | 51428.34 | 18.36 | | |

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2032-12-17T16:08:47.630
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : AAT
 Location : Siding Spring (AAT)
 Latitude (deg) : -31.27703
 E. Longitude (deg) : 149.06608
 Altitude (km) : 1.164
 Gaia source ID : 3424832313679391488
 2Mass ID (if available) : 05565699+2339018
 ICRS Star Coord at Epoch: 05h 56m 57.00502s +23:39:01.44119s
 RUWE (>1.4 is poor) : 1.64
 K magnitude : 13.309
 G magnitude : 15.929
 RP magnitude : 15.052
 BP magnitude : 16.455
 DUPflag : 0
 Distance (au) : 18.038
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -23.36
 Sun-Target sep (deg) : 176.51
 Sun-Moon sep (deg) : 7.23
 B (ring opening deg) : 75.93
 PA of pole (deg) : 55.12
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.227
 C/A sky separation (km) : 29133.6
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 ura111.bsp
 IAU_URANUS_for_RINGFIT.tpc
 vgr2.ura111.bsp
 ura161.bsp
 vgr2.ura161.bsp
 peph.ura160.bsp
 earthstns_itr93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk

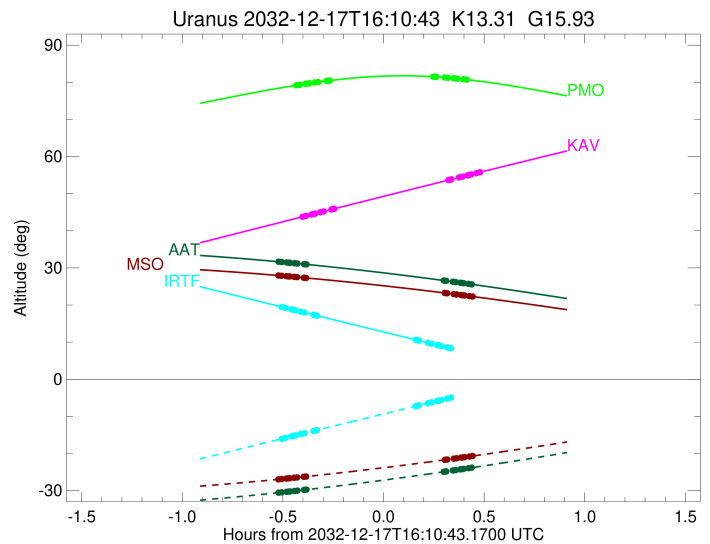
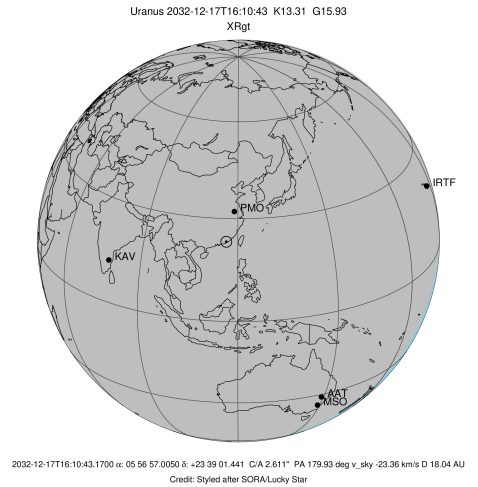


| Ring | I/E | UTC | b? | alt | alt-sun | radius | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|----|-------|---------|----------|--------|---------|--------------|
| epsilon | I | 2032-12-17T15:39:15.488 | | 31.68 | -30.57 | 51361.49 | -19.95 | | |
| lambda | I | 2032-12-17T15:40:23.154 | | 31.58 | -30.46 | 50026.71 | -19.59 | | |
| delta | I | 2032-12-17T15:41:52.124 | | 31.46 | -30.31 | 48300.35 | -19.21 | | |
| gamma | I | 2032-12-17T15:42:27.138 | | 31.41 | -30.26 | 47630.56 | -19.05 | | |
| eta | I | 2032-12-17T15:42:51.067 | | 31.37 | -30.22 | 47176.12 | -18.93 | | |
| beta | I | 2032-12-17T15:44:10.936 | | 31.26 | -30.09 | 45679.86 | -18.52 | | |
| alpha | I | 2032-12-17T15:45:01.422 | | 31.19 | -30.00 | 44752.17 | -18.25 | | |
| 4 | I | 2032-12-17T15:47:03.167 | | 31.01 | -29.80 | 42573.55 | -17.48 | | |
| 5 | I | 2032-12-17T15:47:18.240 | | 30.98 | -29.77 | 42313.25 | -17.41 | | |
| 6 | I | 2032-12-17T15:47:47.129 | | 30.94 | -29.72 | 41812.13 | -17.22 | | |

No planet occultations

| | | | | | | | | | |
|---------|---|-------------------------|--|-------|--------|----------|-------|--|--|
| 6 | E | 2032-12-17T16:28:43.809 | | 26.60 | -24.93 | 41871.76 | 17.19 | | |
| 5 | E | 2032-12-17T16:29:05.316 | | 26.56 | -24.88 | 42250.36 | 17.39 | | |
| 4 | E | 2032-12-17T16:29:20.690 | | 26.53 | -24.85 | 42525.93 | 17.46 | | |
| alpha | E | 2032-12-17T16:31:23.244 | | 26.28 | -24.58 | 44709.87 | 18.22 | | |
| beta | E | 2032-12-17T16:32:14.700 | | 26.17 | -24.46 | 45650.80 | 18.49 | | |
| eta | E | 2032-12-17T16:33:36.226 | | 26.00 | -24.28 | 47176.12 | 18.90 | | |
| gamma | E | 2032-12-17T16:33:59.758 | | 25.95 | -24.23 | 47622.22 | 19.01 | | |
| delta | E | 2032-12-17T16:34:35.273 | | 25.88 | -24.15 | 48300.35 | 19.18 | | |
| lambda | E | 2032-12-17T16:36:04.406 | | 25.69 | -23.95 | 50026.71 | 19.55 | | |
| epsilon | E | 2032-12-17T16:37:14.032 | | 25.55 | -23.79 | 51397.75 | 19.91 | | |

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2032-12-17T16:08:52.960
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : MSO
 Location : Mt. Stromlo Observatory
 Latitude (deg) : -35.32000
 E. Longitude (deg) : 149.00833
 Altitude (km) : 0.770
 Gaia source ID : 3424832313679391488
 2Mass ID (if available) : 05565699+2339018
 ICRS Star Coord at Epoch: 05h 56m 57.00502s +23:39:01.44119s
 RUWE (>1.4 is poor) : 1.64
 K magnitude : 13.309
 G magnitude : 15.929
 RP magnitude : 15.052
 BP magnitude : 16.455
 DUPflag : 0
 Distance (au) : 18.038
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -23.36
 Sun-Target sep (deg) : 176.51
 Sun-Moon sep (deg) : 7.22
 B (ring opening deg) : 75.93
 PA of pole (deg) : 55.12
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.207
 C/A sky separation (km) : 28876.6
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 ura111.bsp
 IAU_URANUS_for_RINGFIT.tpc
 vgr2.ura111.bsp
 ura161.bsp
 vgr2.ura161.bsp
 peph.ura160.bsp
 earthstns_itr93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk



| Ring | I/E | UTC | b? | alt | alt-sun | radius | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|----|-------|---------|----------|--------|---------|--------------|
| epsilon | I | 2032-12-17T15:39:12.542 | | 27.97 | -26.97 | 51359.41 | -20.02 | | |
| lambda | I | 2032-12-17T15:40:19.852 | | 27.88 | -26.87 | 50026.71 | -19.67 | | |
| delta | I | 2032-12-17T15:41:48.452 | | 27.77 | -26.74 | 48300.35 | -19.29 | | |
| gamma | I | 2032-12-17T15:42:23.306 | | 27.72 | -26.69 | 47630.58 | -19.14 | | |
| eta | I | 2032-12-17T15:42:47.123 | | 27.69 | -26.65 | 47176.12 | -19.03 | | |
| beta | I | 2032-12-17T15:44:06.578 | | 27.58 | -26.53 | 45679.91 | -18.63 | | |
| alpha | I | 2032-12-17T15:44:56.780 | | 27.52 | -26.45 | 44752.20 | -18.36 | | |
| 4 | I | 2032-12-17T15:46:57.706 | | 27.35 | -26.26 | 42573.93 | -17.61 | | |
| 5 | I | 2032-12-17T15:47:12.703 | | 27.33 | -26.24 | 42313.10 | -17.54 | | |
| 6 | I | 2032-12-17T15:47:41.378 | | 27.29 | -26.20 | 41811.84 | -17.35 | | |

No planet occultations

| | | | | | | | | | |
|---------|---|-------------------------|--|-------|--------|----------|-------|--|--|
| 6 | E | 2032-12-17T16:29:00.747 | | 23.24 | -21.71 | 41871.98 | 17.33 | | |
| 5 | E | 2032-12-17T16:29:22.034 | | 23.20 | -21.66 | 42249.68 | 17.52 | | |
| 4 | E | 2032-12-17T16:29:37.339 | | 23.17 | -21.63 | 42525.93 | 17.59 | | |
| alpha | E | 2032-12-17T16:31:39.064 | | 22.94 | -21.38 | 44709.61 | 18.33 | | |
| beta | E | 2032-12-17T16:32:30.232 | | 22.85 | -21.28 | 45650.67 | 18.60 | | |
| eta | E | 2032-12-17T16:33:51.339 | | 22.69 | -21.11 | 47176.12 | 18.99 | | |
| gamma | E | 2032-12-17T16:34:14.757 | | 22.64 | -21.06 | 47622.20 | 19.10 | | |
| delta | E | 2032-12-17T16:34:50.109 | | 22.58 | -20.99 | 48300.35 | 19.26 | | |
| lambda | E | 2032-12-17T16:36:18.865 | | 22.40 | -20.80 | 50026.71 | 19.63 | | |
| epsilon | E | 2032-12-17T16:37:28.125 | | 22.27 | -20.65 | 51395.72 | 19.98 | | |