

target : Uranus  
 target radius (km) : 25559.00  
 C/A epoch : 2029-09-08T17:36:50.700  
 Event type : PgtRgt  
 : Uranus occs: geocentric, topocentric  
 : Ring occs: geocentric, topocentric  
 Gaia source ID : 3415381633279587840  
 2Mass ID (if available) : 05075877+2254541

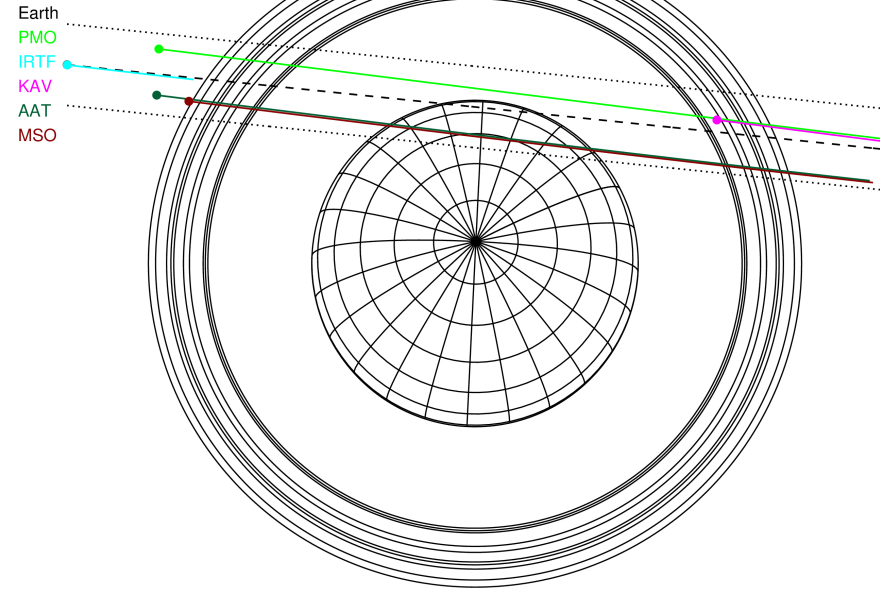
Uranus 2029-09-08T17:36:50 K14.96 G17.37 PgtRgt

ICRS Star Coord at Epoch: 05h 07m 58.79305s +22:54:54.19644s

RUWE (>1.4 is poor) : 1.07  
 K magnitude : 14.961  
 G magnitude : 17.372  
 RP magnitude : 16.650  
 BP magnitude : 17.978  
 DUPflag : 0  
 Distance (au) : 19.252  
 f0 (km) : 0.000  
 g0 (km) : 0.000  
 skyplane vel. (km/s) : 7.42  
 Sun-Target sep (deg) : 87.90  
 Sun-Moon sep (deg) : 91.86  
 B (ring opening deg) : 82.25  
 PA of pole (deg) : -2.27



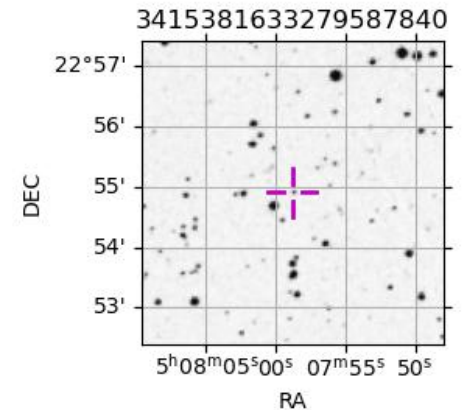
2029-09-08T17:36:50.70000 ra: 05 07 58.7931 s: +22 54 54.196 C/A 1.749° PA 174.09 deg v\_sky + 7.42 km/s D 19.25 AU  
 Credit: Styled after SORA/Lucky Star



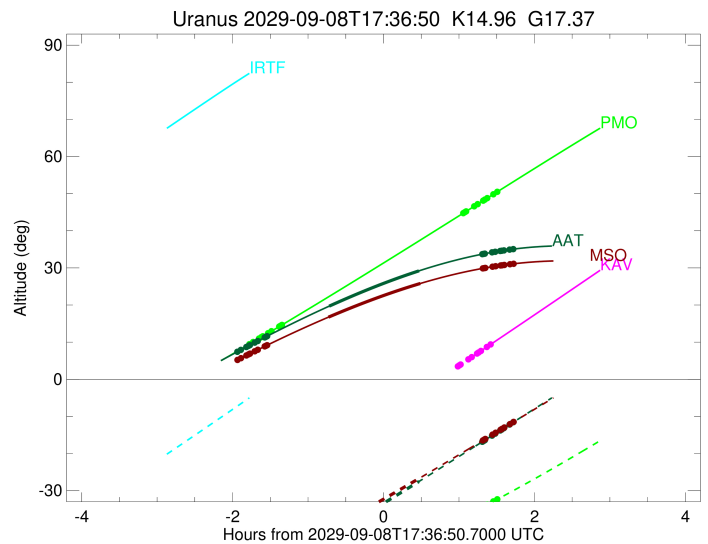
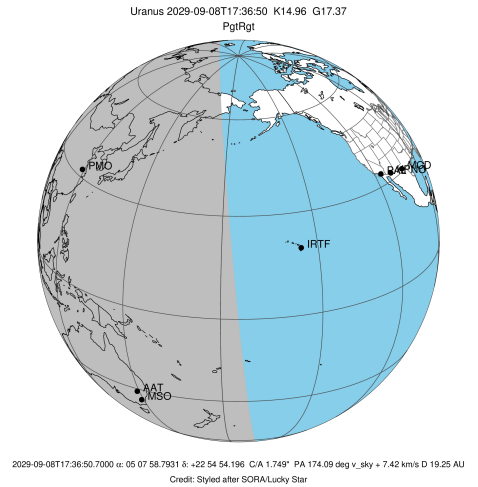
| #  | a(km)   | ring    |
|----|---------|---------|
| 1  | 41837.2 | 6       |
| 2  | 42235.0 | 5       |
| 3  | 42571.2 | 4       |
| 4  | 44718.5 | alpha   |
| 5  | 45661.1 | beta    |
| 6  | 47176.1 | eta     |
| 7  | 47626.3 | gamma   |
| 8  | 48300.3 | delta   |
| 9  | 50026.7 | lambda  |
| 10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

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 | +++++   |        | +++++   | SEP 08 15:50 - SEP 08 19:06 | 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 |         |        |         |                             | PnnRnn |
| KAV  | Kavalur Observatory   | 12.6  | 78.8  |         |        | +++++   | SEP 08 18:44 - SEP 08 19:01 | PnnRne |
| 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 | +++++   | + +    | +++++   | SEP 08 15:41 - SEP 08 19:19 | PieRie |
| SAAO | So. Afr. Astro. Obs.  | -32.4 | 20.8  |         |        |         |                             | PnnRnn |
| MSO  | Mt. Stromlo Observato | -35.3 | 149.0 | +++++   | + +    | +++++   | SEP 08 15:41 - SEP 08 19:19 | PieRie |



target : Uranus  
 target radius (km) : 25559.00  
 C/A epoch : 2029-09-08T17:27:25.000  
 Event type : PgtRgt  
 : Uranus occs: geocentric, topocentric  
 : 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 : 3415381633279587840  
 2Mass ID (if available) : 05075877+2254541  
 ICRS Star Coord at Epoch: 05h 07m 58.79305s +22:54:54.19644s  
 RUWE (>1.4 is poor) : 1.07  
 K magnitude : 14.961  
 G magnitude : 17.372  
 RP magnitude : 16.650  
 BP magnitude : 17.978  
 DUPflag : 0  
 Distance (au) : 19.252  
 f0 (km) : 0.000  
 g0 (km) : 0.000  
 skyplane vel. (km/s) : 7.42  
 Sun-Target sep (deg) : 87.90  
 Sun-Moon sep (deg) : 92.35  
 B (ring opening deg) : 82.25  
 PA of pole (deg) : -2.27  
 Pole direction: RA (deg): 257.31100  
 Dec (deg): -15.17500  
 C/A sky separation (") : 1.949  
 C/A sky separation (km) : 27214.4  
 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



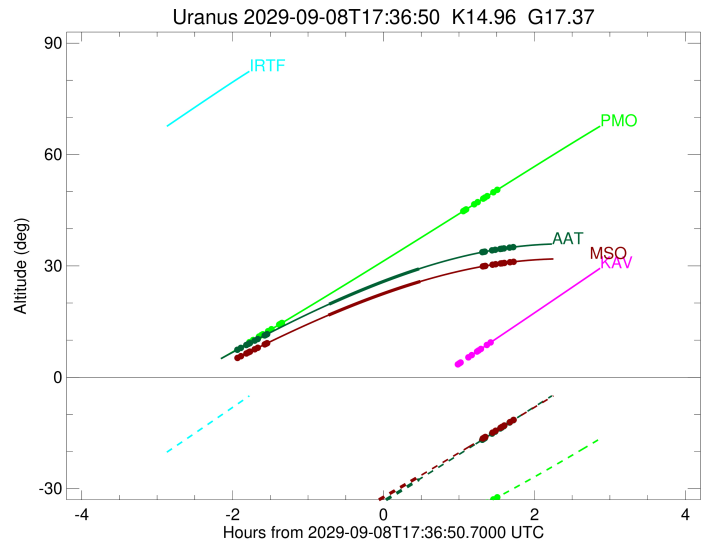
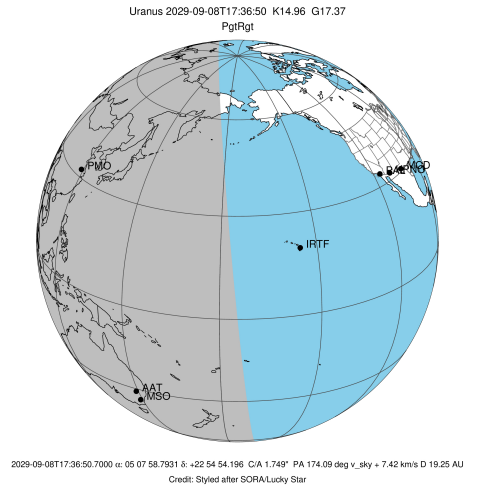
b: ring blocked by planet x: target alt < 5.0 deg or sun > -5.0 deg

| Ring    | I/E | UTC                     | b? | alt   | alt-sun | radius   | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|----|-------|---------|----------|-------|---------|--------------|
| epsilon | I   | 2029-09-08T15:50:45.427 |    | 9.55  | -52.60  | 50962.26 | -6.28 |         |              |
| lambda  | I   | 2029-09-08T15:53:14.425 |    | 10.05 | -52.64  | 50026.71 | -6.25 |         |              |
| delta   | I   | 2029-09-08T15:57:52.891 |    | 10.97 | -52.69  | 48300.35 | -6.15 |         |              |
| gamma   | I   | 2029-09-08T15:59:42.763 |    | 11.34 | -52.70  | 47627.61 | -6.10 |         |              |
| eta     | I   | 2029-09-08T16:00:56.965 |    | 11.59 | -52.70  | 47176.12 | -6.07 |         |              |
| beta    | I   | 2029-09-08T16:05:06.015 |    | 12.42 | -52.70  | 45678.36 | -5.96 |         |              |
| alpha   | I   | 2029-09-08T16:07:53.496 |    | 12.98 | -52.68  | 44686.58 | -5.88 |         |              |
| 4       | I   | 2029-09-08T16:13:53.819 |    | 14.19 | -52.60  | 42601.31 | -5.69 |         |              |
| 5       | I   | 2029-09-08T16:14:47.733 |    | 14.37 | -52.58  | 42300.07 | -5.66 |         |              |
| 6       | I   | 2029-09-08T16:16:02.297 |    | 14.62 | -52.56  | 41874.27 | -5.61 |         |              |

No planet occultations

|         |   |                         |  |       |        |          |      |  |  |
|---------|---|-------------------------|--|-------|--------|----------|------|--|--|
| 6       | E | 2029-09-08T18:40:15.617 |  | 44.74 | -37.06 | 41852.55 | 5.41 |  |  |
| 5       | E | 2029-09-08T18:41:33.728 |  | 45.02 | -36.85 | 42270.78 | 5.45 |  |  |
| 4       | E | 2029-09-08T18:42:33.343 |  | 45.23 | -36.68 | 42599.41 | 5.47 |  |  |
| alpha   | E | 2029-09-08T18:48:54.237 |  | 46.58 | -35.59 | 44715.40 | 5.64 |  |  |
| beta    | E | 2029-09-08T18:51:41.779 |  | 47.17 | -35.11 | 45666.26 | 5.71 |  |  |
| eta     | E | 2029-09-08T18:56:04.068 |  | 48.10 | -34.34 | 47176.12 | 5.80 |  |  |
| gamma   | E | 2029-09-08T18:57:22.223 |  | 48.38 | -34.11 | 47630.65 | 5.83 |  |  |
| delta   | E | 2029-09-08T18:59:16.745 |  | 48.79 | -33.77 | 48300.35 | 5.87 |  |  |
| lambda  | E | 2029-09-08T19:04:08.786 |  | 49.82 | -32.91 | 50026.71 | 5.95 |  |  |
| epsilon | E | 2029-09-08T19:06:34.457 |  | 50.34 | -32.47 | 50897.10 | 5.97 |  |  |

target : Uranus  
 target radius (km) : 25559.00  
 C/A epoch : 2029-09-08T17:25:22.770  
 Event type : PgtRgt  
 : Uranus occs: geocentric, topocentric  
 : 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 : 3415381633279587840  
 2Mass ID (if available) : 05075877+2254541  
 ICRS Star Coord at Epoch: 05h 07m 58.79305s +22:54:54.19644s  
 RUWE (>1.4 is poor) : 1.07  
 K magnitude : 14.961  
 G magnitude : 17.372  
 RP magnitude : 16.650  
 BP magnitude : 17.978  
 DUPflag : 0  
 Distance (au) : 19.252  
 f0 (km) : 0.000  
 g0 (km) : 0.000  
 skyplane vel. (km/s) : 7.42  
 Sun-Target sep (deg) : 87.90  
 Sun-Moon sep (deg) : 91.66  
 B (ring opening deg) : 82.25  
 PA of pole (deg) : -2.27  
 Pole direction: RA (deg): 257.31100  
 Dec (deg): -15.17500  
 C/A sky separation (") : 1.936  
 C/A sky separation (km) : 27033.8  
 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



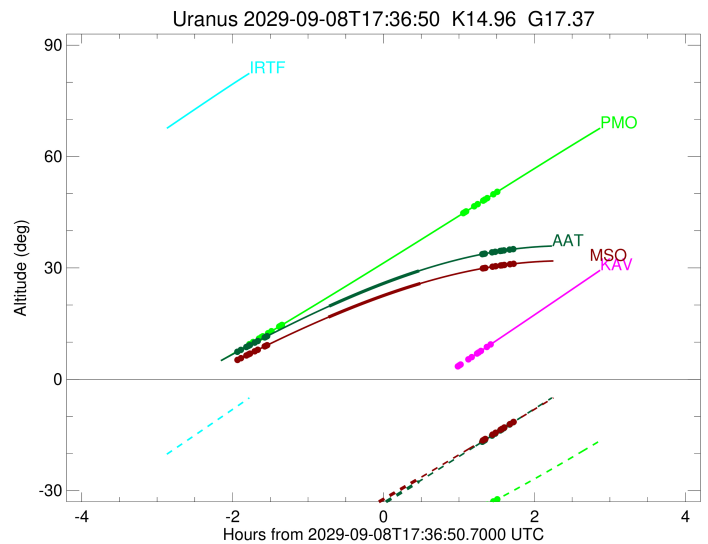
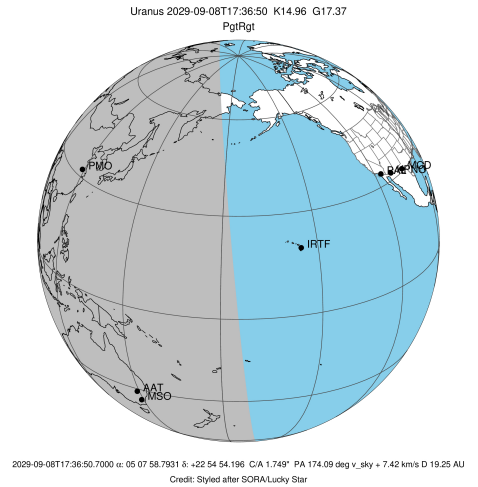
b: ring blocked by planet x: target alt < 5.0 deg or sun > -5.0 deg

| Ring    | I/E | UTC                     | b?      | alt    | alt-sun  | radius | r-dot | lat-geo | lat-geodetic |
|---------|-----|-------------------------|---------|--------|----------|--------|-------|---------|--------------|
| epsilon | I   | 2029-09-08T15:51:56.996 | -31.63x | -44.07 | 50965.47 | -6.52  |       |         |              |
| lambda  | I   | 2029-09-08T15:54:20.927 | -31.16x | -44.62 | 50026.71 | -6.50  |       |         |              |
| delta   | I   | 2029-09-08T15:58:48.898 | -30.29x | -45.64 | 48300.35 | -6.39  |       |         |              |
| gamma   | I   | 2029-09-08T16:00:34.594 | -29.94x | -46.04 | 47627.57 | -6.34  |       |         |              |
| eta     | I   | 2029-09-08T16:01:45.951 | -29.70x | -46.31 | 47176.12 | -6.31  |       |         |              |
| beta    | I   | 2029-09-08T16:05:45.407 | -28.91x | -47.21 | 45678.26 | -6.20  |       |         |              |
| alpha   | I   | 2029-09-08T16:08:26.318 | -28.37x | -47.82 | 44686.69 | -6.12  |       |         |              |
| 4       | I   | 2029-09-08T16:14:12.416 | -27.21x | -49.11 | 42600.99 | -5.93  |       |         |              |
| 5       | I   | 2029-09-08T16:15:04.182 | -27.04x | -49.30 | 42299.62 | -5.90  |       |         |              |
| 6       | I   | 2029-09-08T16:16:15.692 | -26.80x | -49.57 | 41874.07 | -5.85  |       |         |              |

No planet occultations

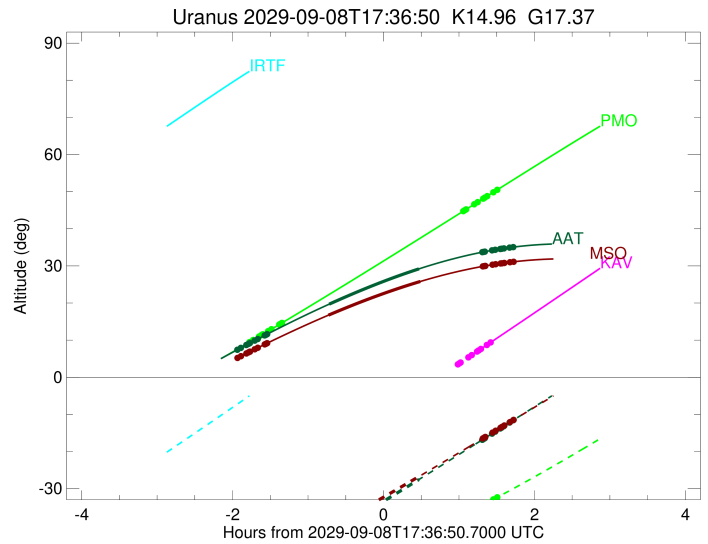
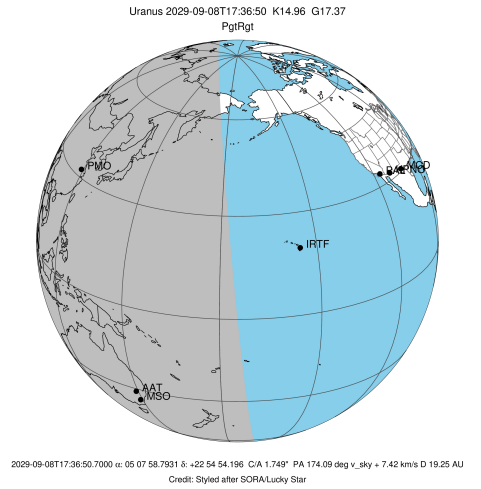
|         |   |                         |       |        |          |      |  |  |  |
|---------|---|-------------------------|-------|--------|----------|------|--|--|--|
| 6       | E | 2029-09-08T18:35:57.945 | 3.48x | -72.07 | 41852.28 | 5.63 |  |  |  |
| 5       | E | 2029-09-08T18:37:12.982 | 3.76x | -72.10 | 42270.31 | 5.67 |  |  |  |
| 4       | E | 2029-09-08T18:38:10.339 | 3.97x | -72.11 | 42599.18 | 5.69 |  |  |  |
| alpha   | E | 2029-09-08T18:44:16.837 | 5.36  | -72.13 | 44715.61 | 5.86 |  |  |  |
| beta    | E | 2029-09-08T18:46:58.082 | 5.96  | -72.10 | 45666.14 | 5.93 |  |  |  |
| eta     | E | 2029-09-08T18:51:10.761 | 6.92  | -72.00 | 47176.12 | 6.02 |  |  |  |
| gamma   | E | 2029-09-08T18:52:26.075 | 7.20  | -71.96 | 47630.63 | 6.05 |  |  |  |
| delta   | E | 2029-09-08T18:54:16.467 | 7.62  | -71.89 | 48300.35 | 6.09 |  |  |  |
| lambda  | E | 2029-09-08T18:58:58.105 | 8.69  | -71.66 | 50026.71 | 6.17 |  |  |  |
| epsilon | E | 2029-09-08T19:01:18.968 | 9.22  | -71.52 | 50899.03 | 6.19 |  |  |  |

target : Uranus  
 target radius (km) : 25559.00  
 C/A epoch : 2029-09-08T17:29:04.230  
 Event type : PgtRgt  
 : Uranus occs: geocentric, topocentric  
 : 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 : 3415381633279587840  
 2Mass ID (if available) : 05075877+2254541  
 ICRS Star Coord at Epoch: 05h 07m 58.79305s +22:54:54.19644s  
 RUWE (>1.4 is poor) : 1.07  
 K magnitude : 14.961  
 G magnitude : 17.372  
 RP magnitude : 16.650  
 BP magnitude : 17.978  
 DUPflag : 0  
 Distance (au) : 19.252  
 f0 (km) : 0.000  
 g0 (km) : 0.000  
 skyplane vel. (km/s) : 7.42  
 Sun-Target sep (deg) : 87.90  
 Sun-Moon sep (deg) : 92.28  
 B (ring opening deg) : 82.25  
 PA of pole (deg) : -2.27  
 Pole direction: RA (deg): 257.31100  
 Dec (deg): -15.17500  
 C/A sky separation (") : 1.435  
 C/A sky separation (km) : 20036.7  
 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   | 2029-09-08T15:40:59.940 |    | 7.47  | -55.25  | 51023.00 | -6.69 |         |              |
| lambda  | I   | 2029-09-08T15:43:28.693 |    | 7.92  | -54.86  | 50026.71 | -6.68 |         |              |
| delta   | I   | 2029-09-08T15:47:48.084 |    | 8.69  | -54.16  | 48300.35 | -6.63 |         |              |
| gamma   | I   | 2029-09-08T15:49:29.908 |    | 9.00  | -53.88  | 47626.69 | -6.60 |         |              |
| eta     | I   | 2029-09-08T15:50:38.214 |    | 9.20  | -53.69  | 47176.12 | -6.59 |         |              |
| beta    | I   | 2029-09-08T15:54:26.860 |    | 9.88  | -53.06  | 45676.11 | -6.53 |         |              |
| alpha   | I   | 2029-09-08T15:56:58.305 |    | 10.32 | -52.63  | 44689.38 | -6.49 |         |              |
| 4       | I   | 2029-09-08T16:02:23.219 |    | 11.27 | -51.70  | 42593.65 | -6.40 |         |              |
| 5       | I   | 2029-09-08T16:03:11.532 |    | 11.41 | -51.56  | 42288.82 | -6.39 |         |              |
| 6       | I   | 2029-09-08T16:04:16.574 |    | 11.60 | -51.37  | 41869.00 | -6.36 |         |              |
| Uranus  | I   | 2029-09-08T16:53:41.091 |    | 19.70 | -42.13  | 25145.43 |       | 6.53    | 6.84         |
| Uranus  | E   | 2029-09-08T18:05:03.967 |    | 29.21 | -27.53  | 25236.95 |       | 5.74    | 6.01         |
| 6       | E   | 2029-09-08T18:55:23.152 |    | 33.70 | -16.84  | 41844.11 | 6.15  |         |              |
| 5       | E   | 2029-09-08T18:56:30.646 |    | 33.77 | -16.60  | 42255.58 | 6.17  |         |              |
| 4       | E   | 2029-09-08T18:57:24.655 |    | 33.83 | -16.41  | 42591.77 | 6.18  |         |              |
| alpha   | E   | 2029-09-08T19:03:07.115 |    | 34.19 | -15.19  | 44721.71 | 6.26  |         |              |
| beta    | E   | 2029-09-08T19:05:37.033 |    | 34.34 | -14.66  | 45662.68 | 6.29  |         |              |
| eta     | E   | 2029-09-08T19:09:36.676 |    | 34.56 | -13.80  | 47176.12 | 6.34  |         |              |
| gamma   | E   | 2029-09-08T19:10:48.240 |    | 34.62 | -13.55  | 47630.08 | 6.35  |         |              |
| delta   | E   | 2029-09-08T19:12:33.648 |    | 34.71 | -13.17  | 48300.35 | 6.37  |         |              |
| lambda  | E   | 2029-09-08T19:17:03.829 |    | 34.93 | -12.21  | 50026.71 | 6.41  |         |              |
| epsilon | E   | 2029-09-08T19:19:27.481 |    | 35.03 | -11.69  | 50949.14 | 6.41  |         |              |

target : Uranus  
 target radius (km) : 25559.00  
 C/A epoch : 2029-09-08T17:29:18.100  
 Event type : PgtRgt  
 : Uranus occs: geocentric, topocentric  
 : 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 : 3415381633279587840  
 2Mass ID (if available) : 05075877+2254541  
 ICRS Star Coord at Epoch: 05h 07m 58.79305s +22:54:54.19644s  
 RUWE (>1.4 is poor) : 1.07  
 K magnitude : 14.961  
 G magnitude : 17.372  
 RP magnitude : 16.650  
 BP magnitude : 17.978  
 DUPflag : 0  
 Distance (au) : 19.252  
 f0 (km) : 0.000  
 g0 (km) : 0.000  
 skyplane vel. (km/s) : 7.42  
 Sun-Target sep (deg) : 87.90  
 Sun-Moon sep (deg) : 92.23  
 B (ring opening deg) : 82.25  
 PA of pole (deg) : -2.27  
 Pole direction: RA (deg): 257.31100  
 Dec (deg): -15.17500  
 C/A sky separation (") : 1.415  
 C/A sky separation (km) : 19753.4  
 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   | 2029-09-08T15:41:05.280 |    | 5.26  | -52.44  | 51025.72 | -6.71 |         |              |
| lambda  | I   | 2029-09-08T15:43:33.903 |    | 5.69  | -52.09  | 50026.71 | -6.71 |         |              |
| delta   | I   | 2029-09-08T15:47:52.307 |    | 6.42  | -51.47  | 48300.35 | -6.65 |         |              |
| gamma   | I   | 2029-09-08T15:49:33.729 |    | 6.71  | -51.22  | 47626.65 | -6.63 |         |              |
| eta     | I   | 2029-09-08T15:50:41.748 |    | 6.90  | -51.05  | 47176.12 | -6.62 |         |              |
| beta    | I   | 2029-09-08T15:54:29.426 |    | 7.54  | -50.48  | 45676.01 | -6.56 |         |              |
| alpha   | I   | 2029-09-08T15:57:00.145 |    | 7.96  | -50.10  | 44689.52 | -6.52 |         |              |
| 4       | I   | 2029-09-08T16:02:23.534 |    | 8.86  | -49.26  | 42593.32 | -6.43 |         |              |
| 5       | I   | 2029-09-08T16:03:11.617 |    | 8.99  | -49.13  | 42288.31 | -6.42 |         |              |
| 6       | I   | 2029-09-08T16:04:16.277 |    | 9.17  | -48.96  | 41868.76 | -6.40 |         |              |
| Uranus  | I   | 2029-09-08T16:53:05.224 |    | 16.73 | -40.58  | 25155.70 |       | 6.45    | 6.75         |
| Uranus  | E   | 2029-09-08T18:06:07.130 |    | 25.81 | -26.52  | 25247.20 |       | 5.65    | 5.92         |
| 6       | E   | 2029-09-08T18:55:48.278 |    | 29.87 | -16.49  | 41843.81 | 6.19  |         |              |
| 5       | E   | 2029-09-08T18:56:55.288 |    | 29.94 | -16.26  | 42255.04 | 6.21  |         |              |
| 4       | E   | 2029-09-08T18:57:49.000 |    | 29.99 | -16.08  | 42591.49 | 6.22  |         |              |
| alpha   | E   | 2029-09-08T19:03:29.453 |    | 30.32 | -14.92  | 44721.93 | 6.30  |         |              |
| beta    | E   | 2029-09-08T19:05:58.449 |    | 30.45 | -14.41  | 45662.56 | 6.33  |         |              |
| eta     | E   | 2029-09-08T19:09:56.776 |    | 30.65 | -13.60  | 47176.12 | 6.37  |         |              |
| gamma   | E   | 2029-09-08T19:11:07.948 |    | 30.71 | -13.36  | 47630.05 | 6.38  |         |              |
| delta   | E   | 2029-09-08T19:12:52.796 |    | 30.79 | -13.00  | 48300.35 | 6.40  |         |              |
| lambda  | E   | 2029-09-08T19:17:21.578 |    | 30.99 | -12.09  | 50026.71 | 6.44  |         |              |
| epsilon | E   | 2029-09-08T19:19:44.808 |    | 31.08 | -11.60  | 50951.06 | 6.44  |         |              |