

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2034-04-15T12:15:13.670
 Event type : XRT
 : No Uranus occs
 : Ring occs: topocentric, not geocentric
 Gaia source ID : 3425390113967687296
 2Mass ID (if available) : 06091591+2341277

ICRS Star Coord at Epoch: 06h 09m 15.93006s +23:41:27.71505s

RUWE (>1.4 is poor) : 1.48
 K magnitude : 14.752
 G magnitude : 17.041
 RP magnitude : 16.290
 BP magnitude : 17.523
 DUPflag : 0
 Distance (au) : 19.304
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 18.02
 Sun-Target sep (deg) : 66.99
 Sun-Moon sep (deg) : 112.59
 B (ring opening deg) : 73.50
 PA of pole (deg) : 61.64

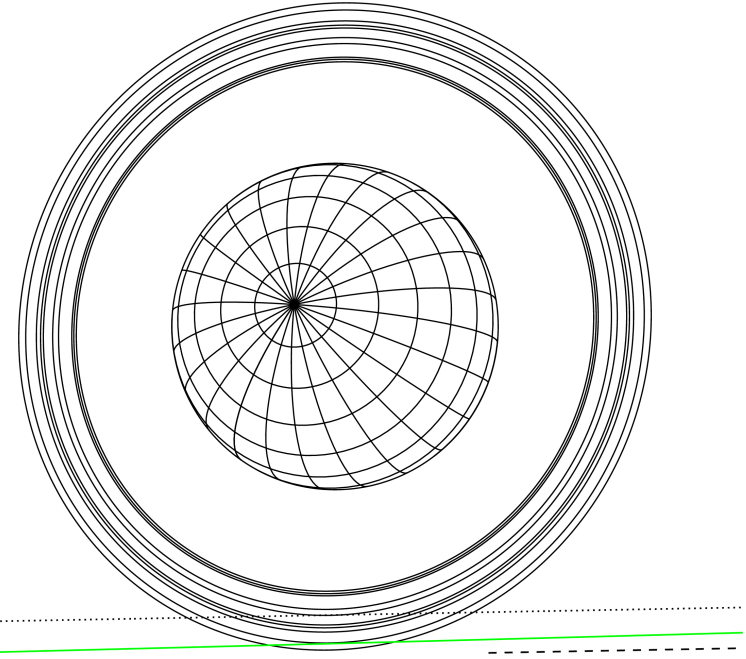
#	a(km)	ring
1	41837.2	6
2	42235.0	5
3	42571.2	4
4	44718.5	alpha
5	45661.1	beta
6	47176.1	eta
7	47626.3	gamma
8	48300.3	delta
9	50026.7	lambda
10	51149.4	epsilon



2034-04-15T12:15:13.6700 α: 06 09 15.9301 δ: +23 41 27.715 C/A 3.675° PA 1.06 deg v_sky +18.02 km/s D 19.30 AU
 Credit: Styled after SORA/Lucky Star

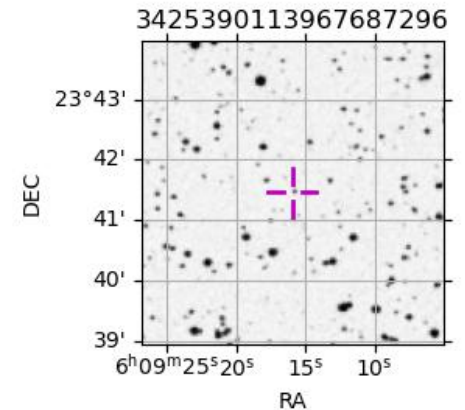
Uranus 2034-04-15T12:15:13 K14.75 G17.04 XRT

PMO



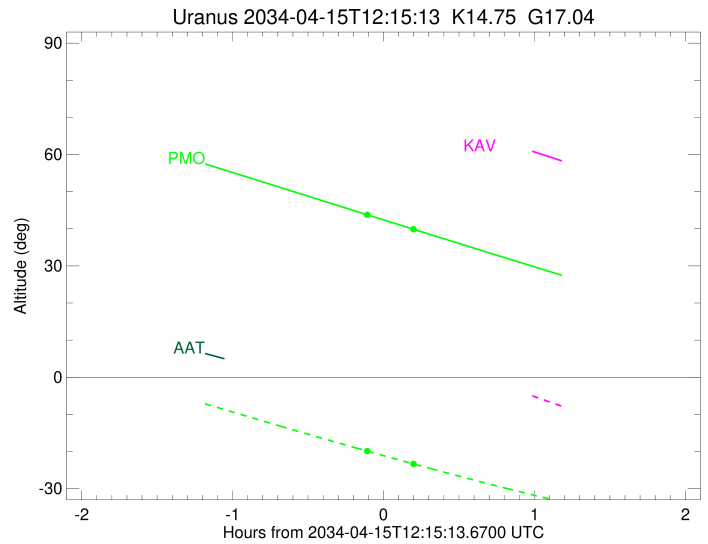
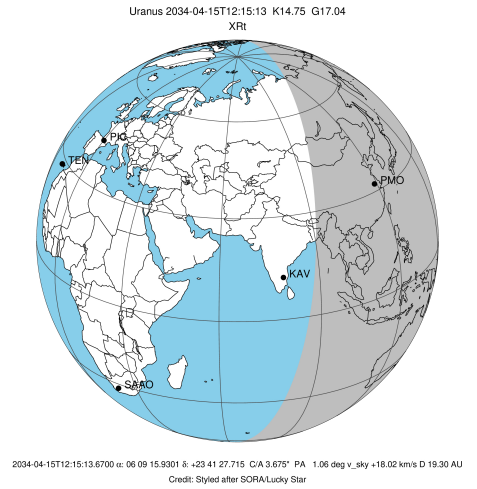
Observable events with sun below -5 deg and altitude above 5 deg unblocked by planet

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	+		+	APR 15 12:10 - APR 15 12:26	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					PnnRnn
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					PnnRnn
SAAO	So. Afr. Astro. Obs.	-32.4	20.8					PnnRnn
MSO	Mt. Stromlo Observato	-35.3	149.0					PnnRnn



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target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2034-04-15T12:19:36.990
Event type          : XRt
: No Uranus occs
: Ring occs: topocentric, not geocentric
Observer code       : PMO
Location            : Purple Mtn Obs. Nanking
Latitude (deg)      : 32.06667
E. Longitude (deg)  : 118.82089
Altitude (km)       : 0.364
Gaia source ID      : 3425390113967687296
2Mass ID (if available) : 06091591+2341277
ICRS Star Coord at Epoch: 06h 09m 15.93006s +23:41:27.71505s
RUWE (>1.4 is poor) : 1.48
K magnitude          : 14.752
G magnitude          : 17.041
RP magnitude         : 16.290
BP magnitude         : 17.523
DUPflag             : 0
Distance (au)        : 19.304
f0 (km)              : 0.000
g0 (km)              : 0.000
skyplane vel. (km/s) : 18.02
Sun-Target sep (deg) : 66.99
Sun-Moon sep (deg)  : 112.95
B (ring opening deg) : 73.50
PA of pole (deg)    : 61.64
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 3.545
C/A sky separation (km) : 49633.0
NAIF SPICE kernels  : RAJobs_U111+rgf15.spk
URKALLvl.spk
urall1.bsp
IAU_URANUS_for_RINGFIT.tpc
vgr2.urall1.bsp
ural61.bsp
vgr2.ural61.bsp
peph.ural60.bsp
earthstns_itrf93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
  
```



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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
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epsilon   I  2034-04-15T12:10:11.530  43.47 -20.16  50876.26  -3.19
  
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No planet occultations

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epsilon   E  2034-04-15T12:26:20.841  40.05 -23.19  50995.54  3.20
  
```