

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2034-05-08T12:07:00.660
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Gaia source ID : 3425256866902263424
 2Mass ID (if available) : 06130987+2340279

ICRS Star Coord at Epoch: 06h 13m 09.87676s +23:40:27.90663s

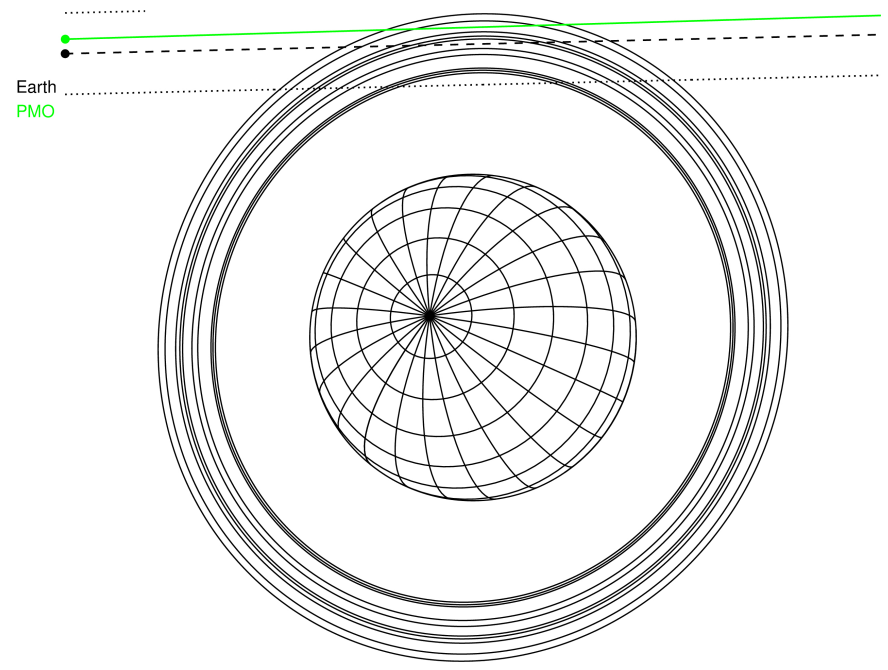
RUWE (>1.4 is poor) : 0.97
 K magnitude : 13.539
 G magnitude : 15.881
 RP magnitude : 15.089
 BP magnitude : 16.522
 DUPflag : 0
 Distance (au) : 19.624
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 27.25
 Sun-Target sep (deg) : 45.51
 Sun-Moon sep (deg) : 168.92
 B (ring opening deg) : 72.72
 PA of pole (deg) : 63.44

#	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



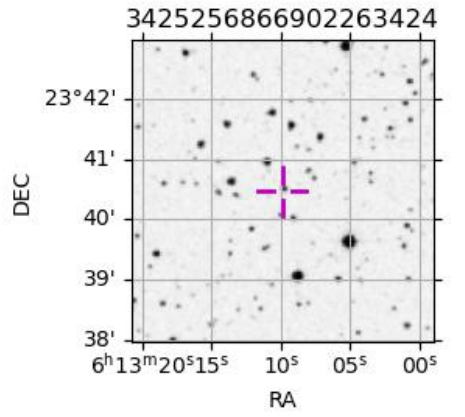
2034-05-08T12:07:00.6600 ex: 06 13 09.8768 s: +23 40 27.907 C/A 3.233° PA 181.34 deg v_sky +27.25 km/s D 19.62 AU
 Credit: Styled after SORA/Lucky Star

Uranus 2034-05-08T12:07:00 K13.54 G15.88 XRgt



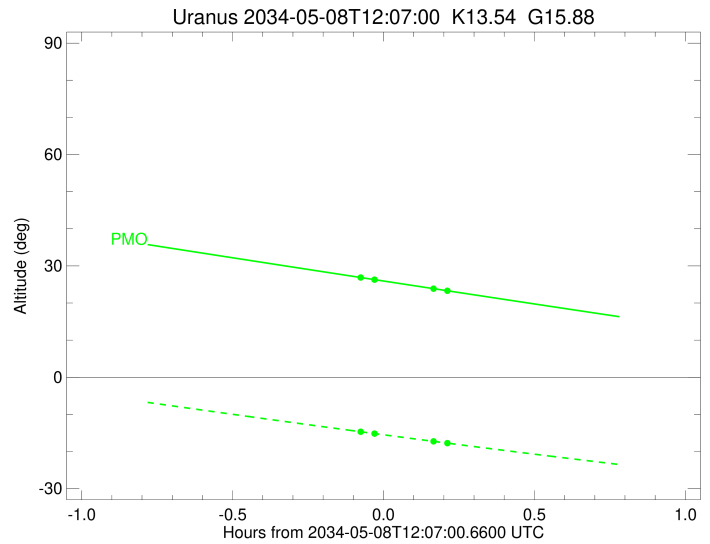
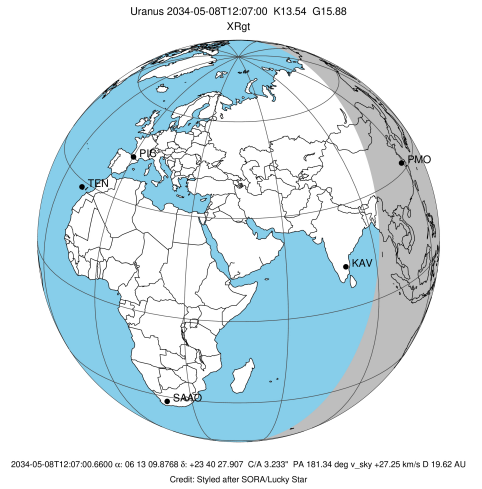
Observable events with sun below -5 deg and altitude above 5 deg unblocked by planet

Obs	Location	lat	Elon	Rings I	Planet	Rings E	Observed Events Interval	OEncode
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	++		++	MAY 08 12:01 - MAY 08 12:20	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



3425256866902263424

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2034-05-08T12:09:58.720
 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 : 3425256866902263424
 2Mass ID (if available) : 06130987+2340279
 ICRS Star Coord at Epoch: 06h 13m 09.87676s +23:40:27.90663s
 RUWE (>1.4 is poor) : 0.97
 K magnitude : 13.539
 G magnitude : 15.881
 RP magnitude : 15.089
 BP magnitude : 16.522
 DUPflag : 0
 Distance (au) : 19.624
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 27.25
 Sun-Target sep (deg) : 45.51
 Sun-Moon sep (deg) : 168.52
 B (ring opening deg) : 72.72
 PA of pole (deg) : 63.44
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.411
 C/A sky separation (km) : 48549.4
 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_itrf93_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	2034-05-08T12:01:55.171		26.99	-14.58	51441.38	-8.62		
lambda	I	2034-05-08T12:05:16.596		26.29	-15.18	50026.71	-5.53		

No planet occultations

lambda	E	2034-05-08T12:16:54.950		23.88	-17.26	50026.71	5.53		
epsilon	E	2034-05-08T12:20:28.953		23.14	-17.88	51551.10	8.64		