

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2035-01-13T03:00:46.500
 Event type : XRT
 : No Uranus occs
 : Ring occs: topocentric, not geocentric
 Gaia source ID : 3382553828145140480
 2Mass ID (if available) : 06323045+2333414

Uranus 2035-01-13T03:00:46 K14.78 G15.55 XRT

ICRS Star Coord at Epoch: 06h 32m 30.45340s +23:33:41.44739s

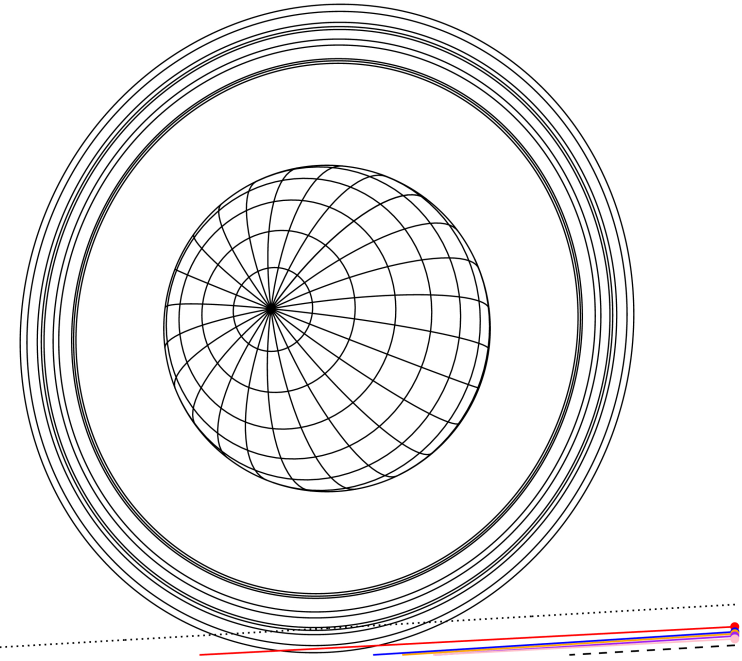
RUWE (>1.4 is poor) : 1.05
 K magnitude : 14.775
 G magnitude : 15.548
 RP magnitude : 15.236
 BP magnitude : 15.737
 DUPflag : 0
 Distance (au) : 17.934
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -22.40
 Sun-Target sep (deg) : 165.19
 Sun-Moon sep (deg) : 125.06
 B (ring opening deg) : 68.68
 PA of pole (deg) : 70.62

Uranus 2035-01-13T03:00:46 K14.78 G15.55 XRT



2035-01-13T03:00:46.500000 α: 06 32 30.4534 α: +23 33 41.447 C/A 4.085° PA 3.32 deg v_sky -22.40 km/s D 17.93 AU
 Credit: Styled after SORA/Lucky Star

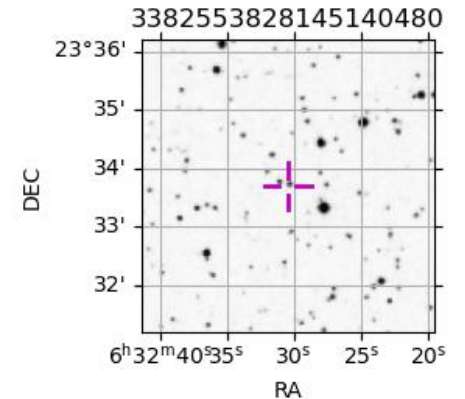
PIC
 PAL
 KPNO
 MCD
 TEN



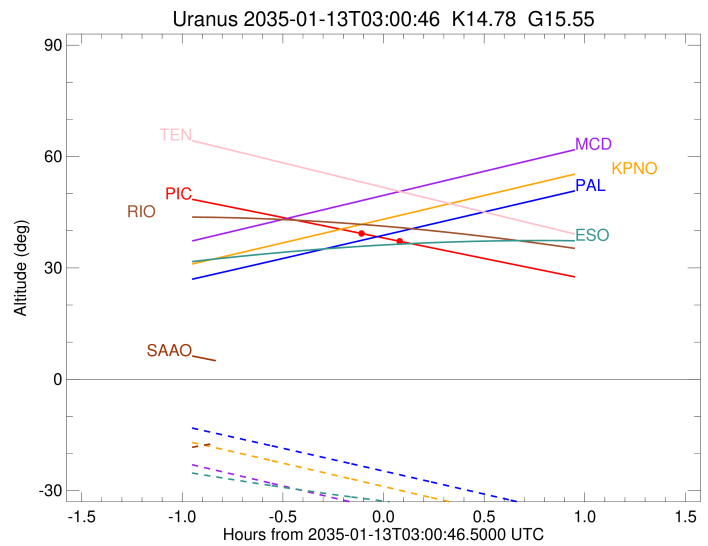
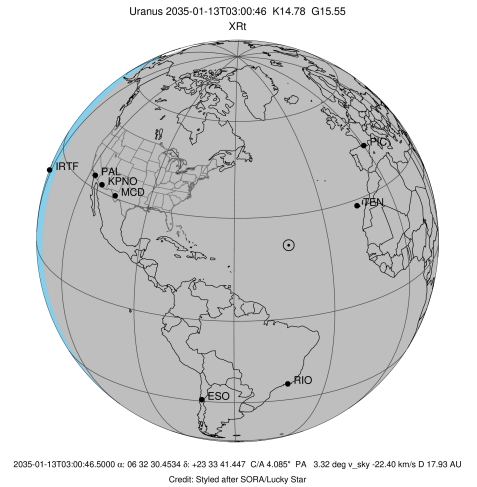
#	a(km)	ring
1	41837.2	6
2	42235.0	5
3	42571.2	4
4	44718.5	alpha
5	45661.1	beta
6	47176.1	eta
7	47626.3	gamma
8	48300.3	delta
9	50026.7	lambda
10	51149.4	epsilon

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	+			+ JAN 13 02:55 - JAN 13 03:03	PnnRie
PAL	Palomar Mt (200")	33.4	243.1					PnnRnn
PMO	Purple Mtn Obs. Nanki	32.1	118.8					PnnRnn
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



target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2035-01-13T02:58:09.540
 Event type : XRt
 : No Uranus occs
 : Ring occs: topocentric, not geocentric
 Observer code : PIC
 Location : Pic du Midi
 Latitude (deg) : 42.93656
 E. Longitude (deg) : 0.14231
 Altitude (km) : 2.890
 Gaia source ID : 3382553828145140480
 2Mass ID (if available) : 06323045+2333414
 ICRS Star Coord at Epoch: 06h 32m 30.45340s +23:33:41.44739s
 RUWE (>1.4 is poor) : 1.05
 K magnitude : 14.775
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 BP magnitude : 15.737
 DUPflag : 0
 Distance (au) : 17.934
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -22.40
 Sun-Target sep (deg) : 165.19
 Sun-Moon sep (deg) : 125.22
 B (ring opening deg) : 68.68
 PA of pole (deg) : 70.62
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.844
 C/A sky separation (km) : 50004.2
 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



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	2035-01-13T02:55:30.979		39.03	-49.23	50899.84	-2.84		
No planet occultations									
epsilon	E	2035-01-13T03:03:54.788		37.49	-47.76	50832.32	2.84		