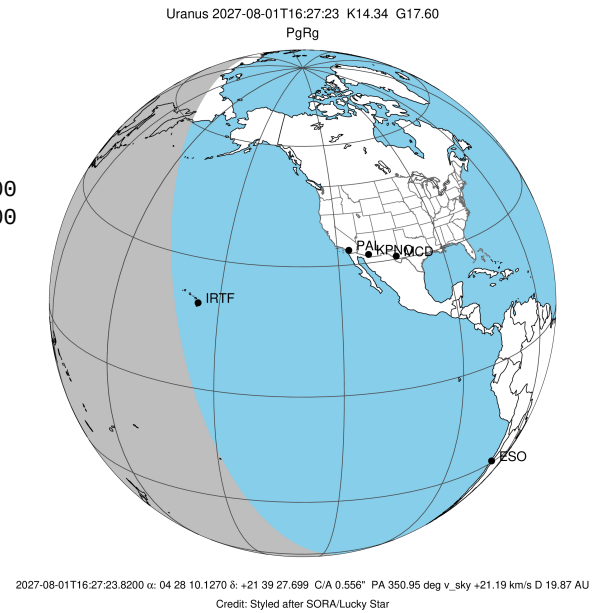
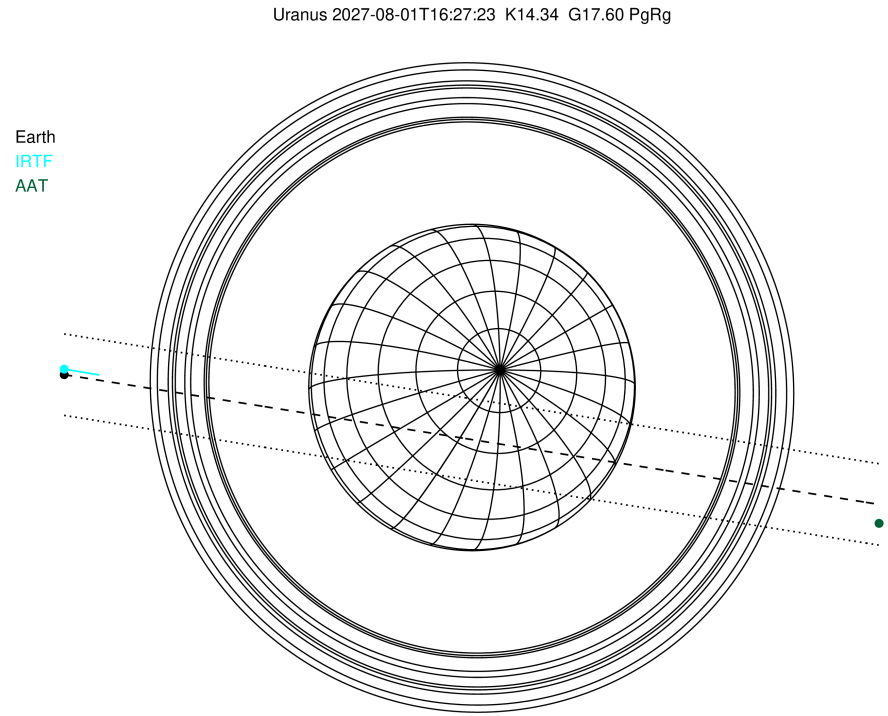
Stellar occultation prediction by rfrench@wellesley.edu Sat Jun 24 23:26:19 2023

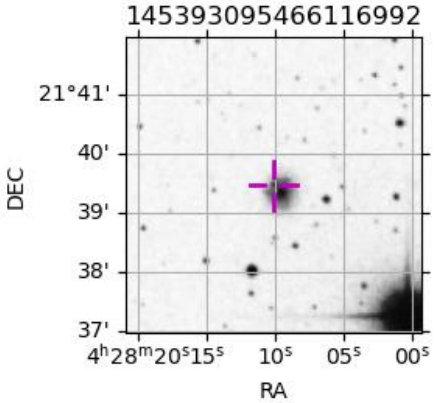
target : Uranus
target radius (km) : 25559.00
C/A epoch : 2027-08-01T16:27:23.820
Event type : PgRg
: Uranus occs: geocentric, not topocentric
: Ring occs: geocentric, not topocentric
Gaia source ID : 145393095466116992
2Mass ID (if available) : 04281015+2139272

ICRS Star Coord at Epoch: 04h 28m 10.12697s +21:39:27.69900s
RUWE (>1.4 is poor) : 2.54
K magnitude : 14.338
G magnitude : 17.603
RP magnitude : 16.248
BP magnitude : 17.481
DUPflag : 0
Distance (au) : 19.872
f0 (km) : 0.000
g0 (km) : 0.000
skyplane vel. (km/s) : 21.19
Sun-Target sep (deg) : 60.09
Sun-Moon sep (deg) : 49.65
B (ring opening deg) : 78.30
PA of pole (deg) : -58.08

#	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					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