

target : Uranus  
 target radius (km) : 25559.00  
 C/A epoch : 2030-07-31T16:13:07.600  
 Event type : PgRg  
 : Uranus occs: geocentric, not topocentric  
 : Ring occs: geocentric, not topocentric  
 Gaia source ID : 3414849714466427520  
 2Mass ID (if available) : 05210483+2312007

ICRS Star Coord at Epoch: 05h 21m 04.81965s +23:12:00.91343s

RUWE (>1.4 is poor) : 1.08  
 K magnitude : 12.868  
 G magnitude : 15.562  
 RP magnitude : 14.689  
 BP magnitude : 16.330  
 DUPflag : 0  
 Distance (au) : 19.858  
 f0 (km) : 0.000  
 g0 (km) : 0.000  
 skyplane vel. (km/s) : 26.65  
 Sun-Target sep (deg) : 47.02  
 Sun-Moon sep (deg) : 61.44  
 B (ring opening deg) : 81.50  
 PA of pole (deg) : 19.71

# 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



2030-07-31T16:13:07.6000 cc: 05 21 04.8196 s: +23 12 00.913 C/A 1.171" PA 355.90 deg v\_sky +26.65 km/s D 19.86 AU  
 Credit: Styled after SORA/Lucky Star

Uranus 2030-07-31T16:13:07 K12.87 G15.56 PgRg

Earth  
 IRTF

