

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2035-08-29T14:00:10.190
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Gaia source ID : 3380118135010221824
 2Mass ID (if available) : 06582409+2306023

ICRS Star Coord at Epoch: 06h 58m 24.08527s +23:06:02.28587s

RUWE (>1.4 is poor) : 1.12
 K magnitude : 14.789
 G magnitude : 16.613
 RP magnitude : 15.993
 BP magnitude : 17.064
 DUPflag : 0
 Distance (au) : 19.450
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 24.72
 Sun-Target sep (deg) : 52.18
 Sun-Moon sep (deg) : 6.58
 B (ring opening deg) : 63.08
 PA of pole (deg) : 77.79

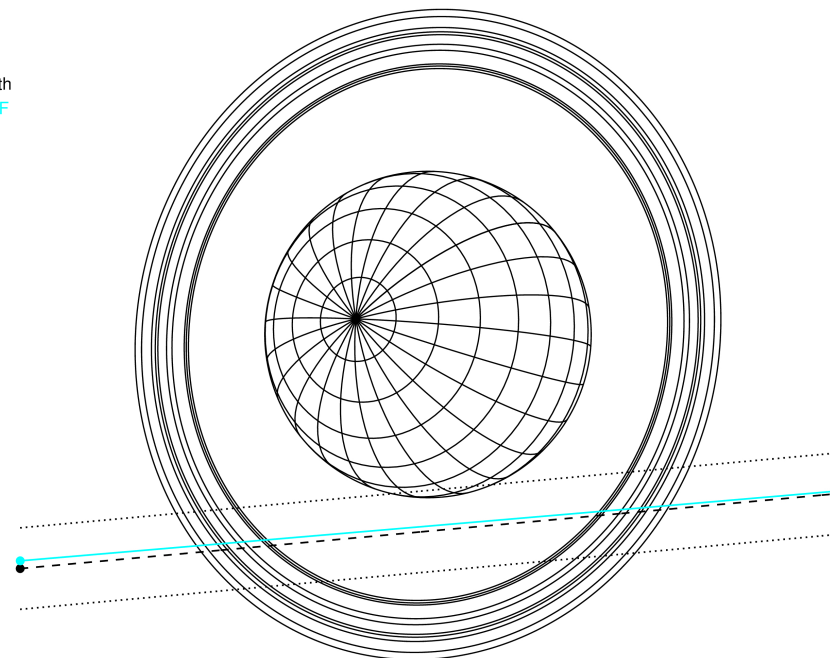
#	a(km)	ring
1	41837.2	6
2	42235.0	5
3	42571.2	4
4	44718.5	alpha
5	45661.1	beta
6	47176.1	eta
7	47626.3	gamma
8	48300.3	delta
9	50026.7	lambda
10	51149.4	epsilon



2035-08-29T14:00:10.1900 α: 06 58 24.0853 β: +23 06 02.286 C/A 2.170° PA 5.24 deg v_sky +24.72 km/s D 19.45 AU
 Credit: Styled after SORA/Lucky Star

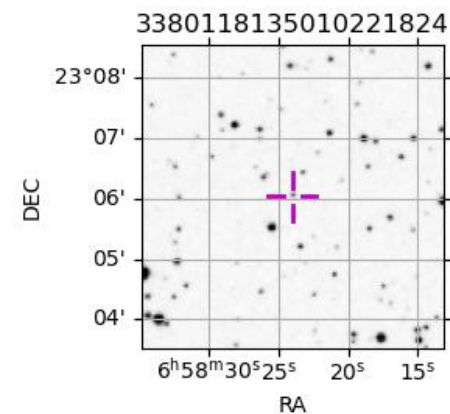
Earth
 IRTF

Uranus 2035-08-29T14:00:10 K14.79 G16.61 XRgt

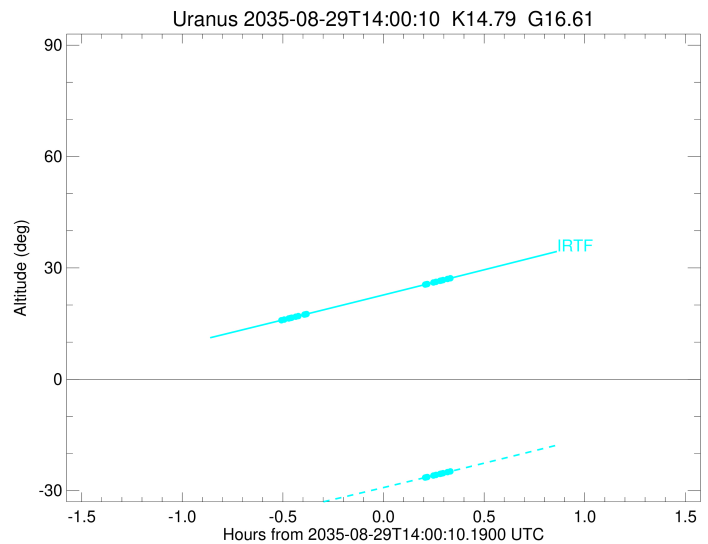
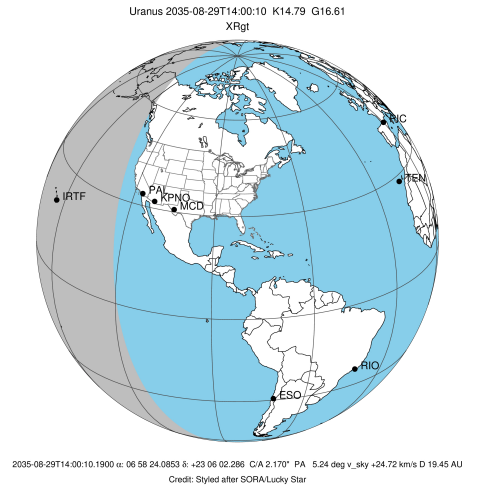


Observable events with sun below -5 deg and altitude above 5 deg unblocked by planet

Obs	Location	lat	Elon	Rings I	Planet	Rings E	Observed Events Interval	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	+++++		+++++	AUG 29 13:29 - AUG 29 14:20	PnnRie
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 : 2035-08-29T13:56:05.070
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : IRTF
 Location : Mauna Kea/IRTF
 Latitude (deg) : 19.82622
 E. Longitude (deg) : 204.52800
 Altitude (km) : 4.168
 Gaia source ID : 3380118135010221824
 2Mass ID (if available) : 06582409+2306023
 ICRS Star Coord at Epoch: 06h 58m 24.08527s +23:06:02.28587s
 RUWE (>1.4 is poor) : 1.12
 K magnitude : 14.789
 G magnitude : 16.613
 RP magnitude : 15.993
 BP magnitude : 17.064
 DUPflag : 0
 Distance (au) : 19.450
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 24.72
 Sun-Target sep (deg) : 52.18
 Sun-Moon sep (deg) : 7.41
 B (ring opening deg) : 63.08
 PA of pole (deg) : 77.79
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.120
 C/A sky separation (km) : 29902.9
 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_itr93_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	2035-08-29T13:29:58.747		15.95	-35.58	50835.08	-22.11		
lambda	I	2035-08-29T13:30:35.606		16.09	-35.45	50026.71	-21.83		
delta	I	2035-08-29T13:31:55.514		16.39	-35.17	48300.35	-21.37		
gamma	I	2035-08-29T13:32:27.113		16.50	-35.07	47628.20	-21.17		
eta	I	2035-08-29T13:32:48.535		16.58	-34.99	47176.12	-21.03		
beta	I	2035-08-29T13:34:00.433		16.85	-34.74	45681.23	-20.54		
alpha	I	2035-08-29T13:34:49.465		17.03	-34.57	44685.80	-20.18		
4	I	2035-08-29T13:36:37.685		17.43	-34.19	42541.29	-19.29		
5	I	2035-08-29T13:36:51.644		17.49	-34.14	42279.23	-19.13		
6	I	2035-08-29T13:37:16.330		17.58	-34.06	41802.03	-18.93		

No planet occultations

6	E	2035-08-29T14:12:34.527		25.51	-26.48	41859.50	18.88		
5	E	2035-08-29T14:12:50.774		25.57	-26.42	42169.16	19.07		
4	E	2035-08-29T14:13:14.279		25.66	-26.33	42605.06	19.23		
alpha	E	2035-08-29T14:15:02.239		26.07	-25.94	44730.24	20.11		
beta	E	2035-08-29T14:15:48.028		26.24	-25.77	45658.10	20.47		
eta	E	2035-08-29T14:17:01.419		26.51	-25.50	47176.12	20.95		
gamma	E	2035-08-29T14:17:23.046		26.60	-25.42	47630.74	21.09		
delta	E	2035-08-29T14:17:54.651		26.72	-25.31	48300.35	21.28		
lambda	E	2035-08-29T14:19:14.893		27.02	-25.01	50026.71	21.74		
epsilon	E	2035-08-29T14:20:21.655		27.27	-24.77	51489.65	22.01		