

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2026-10-16T13:29:35.220
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Gaia source ID : 51999924967265792
 2Mass ID (if available) : 04112943+2056254

ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s

RUWE (>1.4 is poor) : 1.01
 K magnitude : 13.494
 G magnitude : 17.423
 RP magnitude : 16.203
 BP magnitude : 18.978
 DUPflag : 0
 Distance (au) : 18.686
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -15.83
 Sun-Target sep (deg) : 138.04
 Sun-Moon sep (deg) : 154.53
 B (ring opening deg) : 75.12
 PA of pole (deg) : -69.59

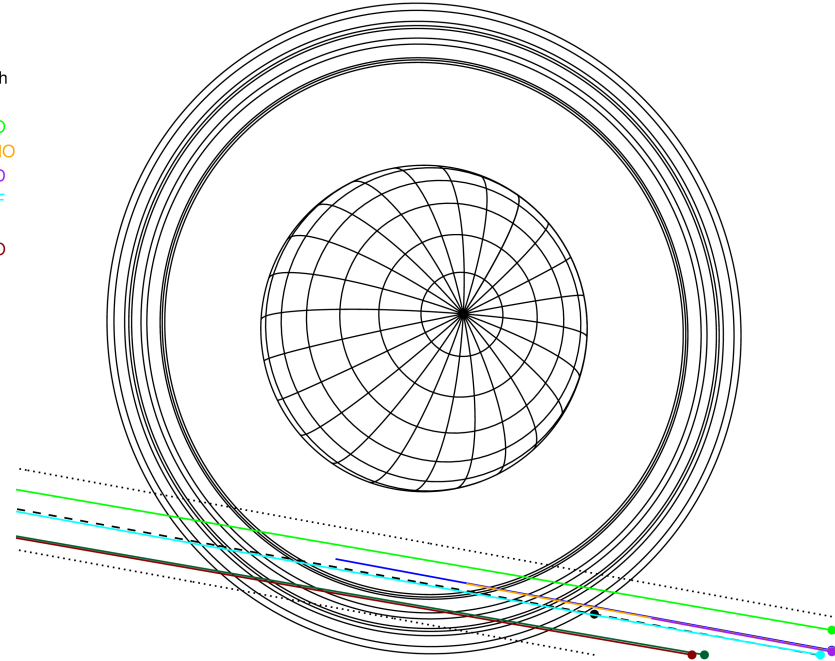
#	a(km)	ring
1	41837.2	6
2	42235.0	5
3	42571.2	4
4	44718.5	alpha
5	45661.1	beta
6	47176.1	eta
7	47626.3	gamma
8	48300.3	delta
9	50026.7	lambda
10	51149.4	epsilon



2026-10-16T13:29:35.2200 ex: 04 11 29.4619 s: +20 56 25.115 C/A 2.892" PA 349.69 deg v_sky -15.83 km/s D 18.69 AU
 Credit: Styled after SORA/Lucky Star

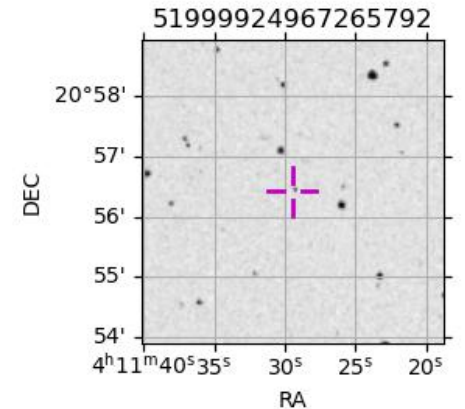
Uranus 2026-10-16T13:29:35 K13.49 G17.42 XRgt

Earth
 PAL
 PMO
 KPNO
 MCD
 IRTF
 AAT
 MSO



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

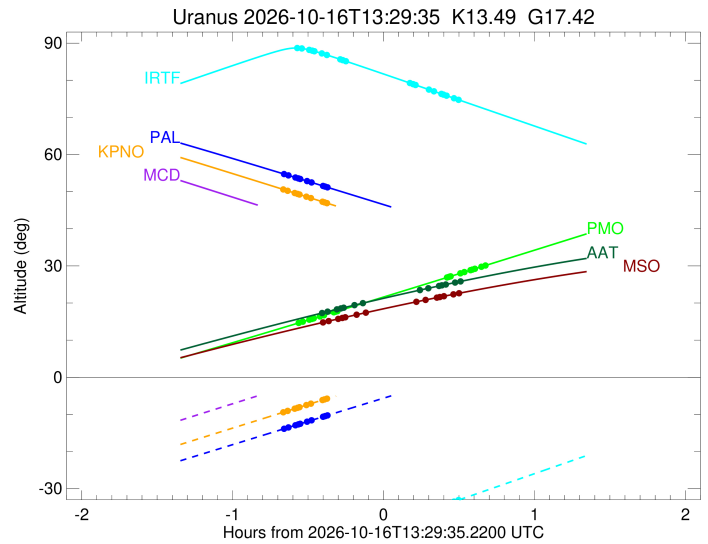
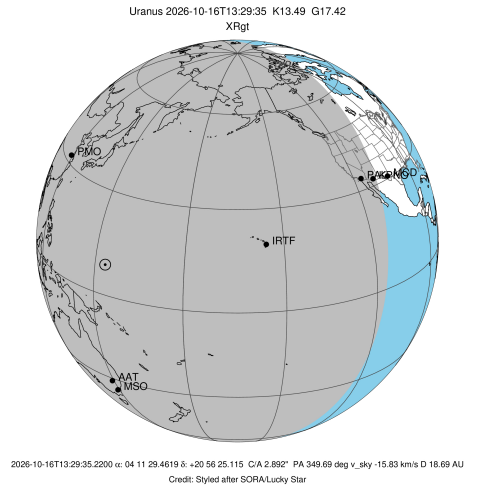
Obs	Location	lat	Elon	Rings I	Planet	Rings E	Observed Events Interval	OEcode
PIC	Pic du Midi	42.9	0.1					PnnRnn
PAL	Palomar Mt (200")	33.4	243.1	+++++			OCT 16 12:49 - OCT 16 13:07	PnnRin
PMO	Purple Mtn Obs. Nanki	32.1	118.8	+++++		+++++	OCT 16 12:55 - OCT 16 14:10	PnnRie
KPNO	Kitt Peak Natl Obs	32.0	248.4	+++++			OCT 16 12:49 - OCT 16 13:07	PnnRin
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	+++++		+++++	OCT 16 12:54 - OCT 16 13:59	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	+++++		+++++	OCT 16 13:04 - OCT 16 14:00	PnnRie
SAAO	So. Afr. Astro. Obs.	-32.4	20.8					PnnRnn
MSO	Mt. Stromlo Observato	-35.3	149.0	+++++		+++++	OCT 16 13:05 - OCT 16 14:00	PnnRie



51999924967265792

20°58'
 57'
 56'
 55'
 54'
 4^h11^m40^s35^s 30^s 25^s 20^s
 RA

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2026-10-16T13:25:21.560
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : PAL
 Location : Palomar Mt (200")
 Latitude (deg) : 33.35622
 E. Longitude (deg) : 243.13601
 Altitude (km) : 1.706
 Gaia source ID : 51999924967265792
 2Mass ID (if available) : 04112943+2056254
 ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s
 RUWE (>1.4 is poor) : 1.01
 K magnitude : 13.494
 G magnitude : 17.423
 RP magnitude : 16.203
 BP magnitude : 18.978
 DUPflag : 0
 Distance (au) : 18.686
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -15.83
 Sun-Target sep (deg) : 138.04
 Sun-Moon sep (deg) : 154.26
 B (ring opening deg) : 75.12
 PA of pole (deg) : -69.59
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.805
 C/A sky separation (km) : 38015.8
 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

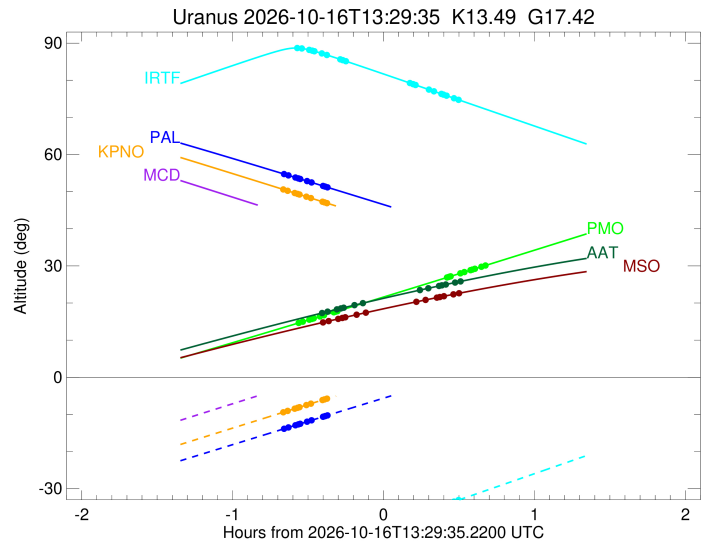
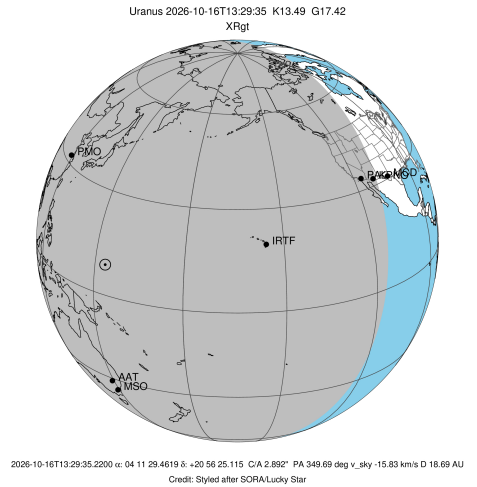


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2026-10-16T12:49:42.238		54.82	-13.95	51397.71	-11.08		
lambda	I	2026-10-16T12:51:49.059		54.38	-13.51	50026.71	-10.61		
delta	I	2026-10-16T12:54:36.140		53.81	-12.93	48300.35	-10.04		
gamma	I	2026-10-16T12:55:43.888		53.57	-12.69	47628.26	-9.79		
eta	I	2026-10-16T12:56:30.461		53.41	-12.53	47176.12	-9.62		
beta	I	2026-10-16T12:59:15.674		52.84	-11.95	45641.06	-8.95		
alpha	I	2026-10-16T13:01:04.977		52.46	-11.57	44688.39	-8.48		
4	I	2026-10-16T13:05:33.712		51.53	-10.64	42582.68	-7.18		
5	I	2026-10-16T13:06:32.120		51.33	-10.44	42173.87	-6.87		
6	I	2026-10-16T13:07:26.361		51.14	-10.25	41808.94	-6.55		

No planet occultations

6	E	2026-10-16T13:40:54.527		44.15	-3.29x	41794.76	6.54		
5	E	2026-10-16T13:42:00.692		43.91	-3.06x	42234.47	6.86		
4	E	2026-10-16T13:42:55.278		43.72	-2.88x	42612.73	7.17		
alpha	E	2026-10-16T13:47:23.227		42.79	-1.95x	44718.02	8.46		
beta	E	2026-10-16T13:49:11.024		42.41	-1.58x	45652.38	8.93		
eta	E	2026-10-16T13:51:55.361		41.83	-1.02x	47176.12	9.59		
gamma	E	2026-10-16T13:52:41.456		41.67	-0.86x	47622.15	9.76		
delta	E	2026-10-16T13:53:50.050		41.43	-0.63x	48300.35	10.01		
lambda	E	2026-10-16T13:56:37.714		40.85	-0.05x	50026.71	10.57		
epsilon	E	2026-10-16T13:58:53.742		40.37	0.41x	51493.53	11.04		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2026-10-16T13:34:10.100
 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 : 51999924967265792
 2Mass ID (if available) : 04112943+2056254
 ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s
 RUWE (>1.4 is poor) : 1.01
 K magnitude : 13.494
 G magnitude : 17.423
 RP magnitude : 16.203
 BP magnitude : 18.978
 DUPflag : 0
 Distance (au) : 18.686
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -15.83
 Sun-Target sep (deg) : 138.04
 Sun-Moon sep (deg) : 155.17
 B (ring opening deg) : 75.12
 PA of pole (deg) : -69.59
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.633
 C/A sky separation (km) : 35688.4
 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_itrff93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk



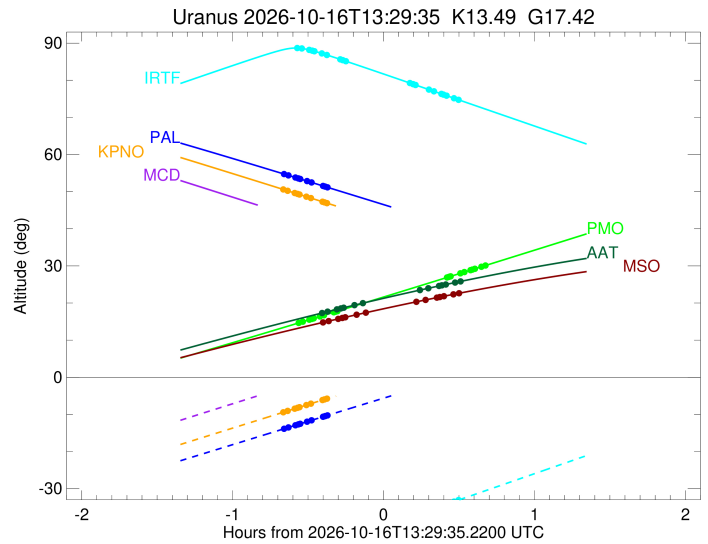
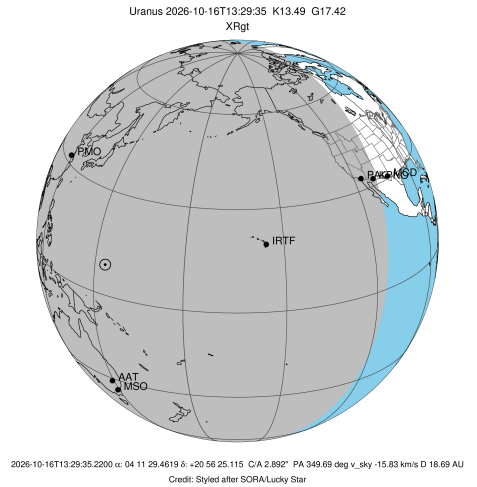
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2026-10-16T12:55:33.864		14.58	-43.57	51371.93	-11.66		
lambda	I	2026-10-16T12:57:31.536		14.98	-43.96	50026.71	-11.28		
delta	I	2026-10-16T13:00:07.664		15.51	-44.48	48300.35	-10.83		
gamma	I	2026-10-16T13:01:10.235		15.73	-44.68	47628.70	-10.64		
eta	I	2026-10-16T13:01:53.055		15.87	-44.83	47176.12	-10.50		
beta	I	2026-10-16T13:04:22.811		16.39	-45.32	45641.22	-9.99		
alpha	I	2026-10-16T13:06:00.063		16.72	-45.64	44686.90	-9.63		
4	I	2026-10-16T13:09:50.224		17.51	-46.39	42577.07	-8.69		
5	I	2026-10-16T13:10:37.955		17.67	-46.55	42167.61	-8.48		
6	I	2026-10-16T13:11:20.309		17.82	-46.69	41813.52	-8.26		

No planet occultations

6	E	2026-10-16T13:54:42.404		26.86	-54.79	41794.91	8.30		
5	E	2026-10-16T13:55:36.354		27.05	-54.95	42243.01	8.52		
4	E	2026-10-16T13:56:19.926		27.20	-55.07	42614.37	8.74		
alpha	E	2026-10-16T14:00:07.286		28.00	-55.73	44720.83	9.69		
beta	E	2026-10-16T14:01:42.062		28.33	-56.00	45653.79	10.06		
eta	E	2026-10-16T14:04:09.428		28.85	-56.42	47176.12	10.58		
gamma	E	2026-10-16T14:04:51.302		29.00	-56.54	47621.94	10.72		
delta	E	2026-10-16T14:05:54.029		29.22	-56.72	48300.35	10.91		
lambda	E	2026-10-16T14:08:28.906		29.76	-57.15	50026.71	11.37		
epsilon	E	2026-10-16T14:10:34.944		30.20	-57.50	51481.56	11.76		

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2026-10-16T13:25:00.000
Event type          : XRgt
: No Uranus occs
: Ring occs: geocentric, topocentric
Observer code       : KPNO
Location            : Kitt Peak Natl Obs
Latitude (deg)      : 31.96333
E. Longitude (deg)  : 248.40000
Altitude (km)       : 2.120
Gaia source ID      : 51999924967265792
2Mass ID (if available) : 04112943+2056254
ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s
RUWE (>1.4 is poor) : 1.01
K magnitude         : 13.494
G magnitude         : 17.423
RP magnitude        : 16.203
BP magnitude        : 18.978
DUPflag            : 0
Distance (au)       : 18.686
f0 (km)             : 0.000
g0 (km)             : 0.000
skyplane vel. (km/s) : -15.83
Sun-Target sep (deg) : 138.04
Sun-Moon sep (deg)  : 154.19
B (ring opening deg) : 75.12
PA of pole (deg)    : -69.59
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 2.811
C/A sky separation (km) : 38093.1
NAIF SPICE kernels  : RAJobs_U111+rgf15.spk
URKALLvl1.spk
urall1.bsp
IAU_URANUS_for_RINGFIT.tpc
vgr2.urall1.bsp
ural61.bsp
vgr2.ural61.bsp
peph.ural60.bsp
earthstns_itrff93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
    
```



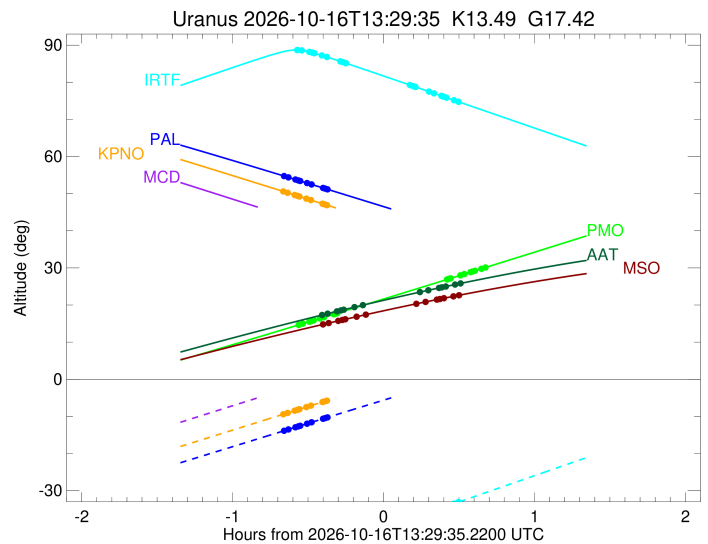
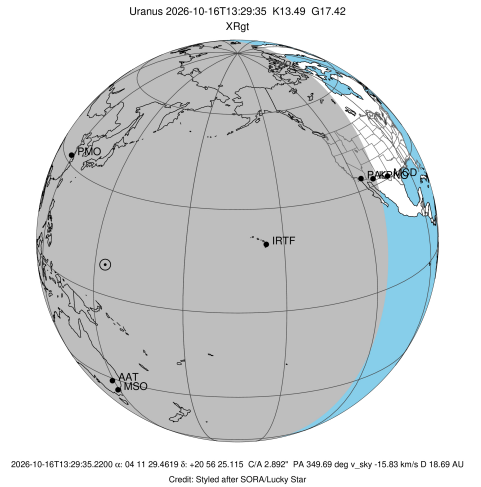
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2026-10-16T12:49:23.286		50.68	-9.51	51398.72	-11.04		
lambda	I	2026-10-16T12:51:30.680		50.22	-9.06	50026.71	-10.57		
delta	I	2026-10-16T12:54:18.477		49.63	-8.46	48300.35	-10.00		
gamma	I	2026-10-16T12:55:26.547		49.39	-8.22	47628.24	-9.75		
eta	I	2026-10-16T12:56:13.352		49.22	-8.06	47176.12	-9.57		
beta	I	2026-10-16T12:58:59.488		48.64	-7.47	45641.06	-8.90		
alpha	I	2026-10-16T13:00:49.493		48.25	-7.09	44688.46	-8.42		
4	I	2026-10-16T13:05:20.458		47.28	-6.13	42582.91	-7.11		
5	I	2026-10-16T13:06:19.486		47.08	-5.93	42174.15	-6.80		
6	I	2026-10-16T13:07:14.429		46.88	-5.73	41808.76	-6.47		

No planet occultations

6	E	2026-10-16T13:40:22.837		39.82	1.21x	41794.76	6.46		
5	E	2026-10-16T13:41:29.739		39.58	1.44x	42234.17	6.78		
4	E	2026-10-16T13:42:24.951		39.39	1.64x	42612.67	7.09		
alpha	E	2026-10-16T13:46:55.217		38.43	2.57x	44717.93	8.40		
beta	E	2026-10-16T13:48:43.757		38.04	2.95x	45652.33	8.87		
eta	E	2026-10-16T13:51:29.081		37.46	3.52x	47176.12	9.54		
gamma	E	2026-10-16T13:52:15.427		37.29	3.68x	47622.16	9.71		
delta	E	2026-10-16T13:53:24.376		37.05	3.91x	48300.35	9.96		
lambda	E	2026-10-16T13:56:12.836		36.45	4.50x	50026.71	10.53		
epsilon	E	2026-10-16T13:58:29.477		35.97	4.97x	51493.85	10.99		

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2026-10-16T13:28:33.250
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      : 51999924967265792
2Mass ID (if available) : 04112943+2056254
ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s
RUWE (>1.4 is poor) : 1.01
K magnitude         : 13.494
G magnitude         : 17.423
RP magnitude        : 16.203
BP magnitude        : 18.978
DUPflag            : 0
Distance (au)       : 18.686
f0 (km)             : 0.000
g0 (km)             : 0.000
skyplane vel. (km/s) : -15.83
Sun-Target sep (deg) : 138.04
Sun-Moon sep (deg)  : 154.80
B (ring opening deg) : 75.12
PA of pole (deg)    : -69.59
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 2.916
C/A sky separation (km) : 39515.5
NAIF SPICE kernels  : RAJobs_U111+rgf15.spk
URKALLvl1.spk
urall1.bsp
IAU_URANUS_for_RINGFIT.tpc
vgr2.urall1.bsp
ural61.bsp
vgr2.ural61.bsp
peph.ural60.bsp
earthstns_itr93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
    
```

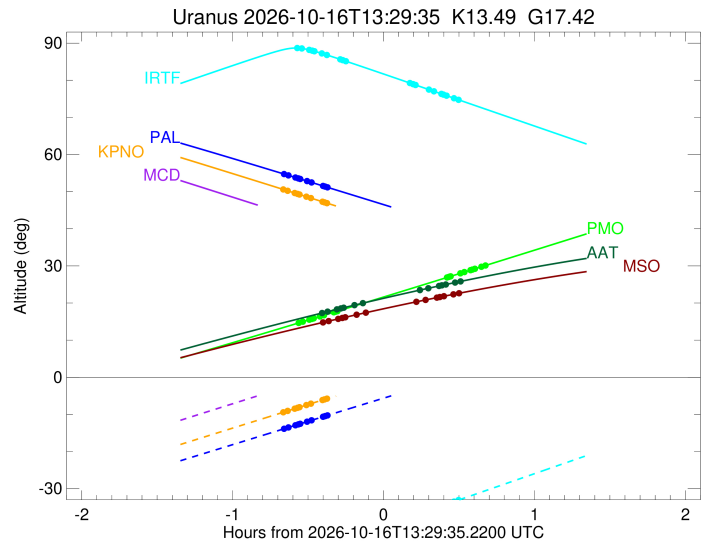
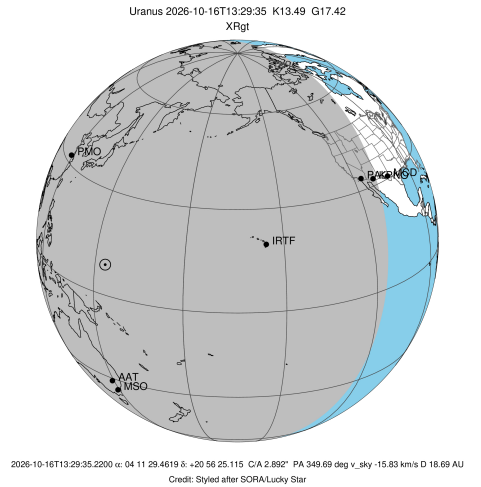


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2026-10-16T12:54:54.073		88.69	-48.19	51409.96	-10.59		
lambda	I	2026-10-16T12:57:08.499		88.57	-47.67	50026.71	-10.06		
delta	I	2026-10-16T13:00:05.814		88.18	-46.98	48300.35	-9.40		
gamma	I	2026-10-16T13:01:18.445		87.97	-46.70	47628.01	-9.11		
eta	I	2026-10-16T13:02:08.614		87.82	-46.50	47176.12	-8.90		
beta	I	2026-10-16T13:05:08.974		87.22	-45.80	45641.06	-8.11		
alpha	I	2026-10-16T13:07:10.716		86.79	-45.33	44689.44	-7.53		
4	I	2026-10-16T13:12:24.327		85.64	-44.11	42586.31	-5.87		
5	I	2026-10-16T13:13:36.847		85.37	-43.82	42178.76	-5.45		
6	I	2026-10-16T13:14:48.009		85.10	-43.55	41806.00	-4.99		

No planet occultations

6	E	2026-10-16T13:39:52.097		79.31	-37.67	41795.13	4.99		
5	E	2026-10-16T13:41:14.963		78.99	-37.35	42226.28	5.45		
4	E	2026-10-16T13:42:23.659		78.72	-37.08	42610.79	5.87		
alpha	E	2026-10-16T13:47:35.779		77.51	-35.86	44715.44	7.53		
beta	E	2026-10-16T13:49:35.742		77.04	-35.39	45651.13	8.11		
eta	E	2026-10-16T13:52:34.737		76.34	-34.68	47176.12	8.90		
gamma	E	2026-10-16T13:53:24.280		76.15	-34.49	47622.37	9.11		
delta	E	2026-10-16T13:54:37.520		75.86	-34.20	48300.35	9.40		
lambda	E	2026-10-16T13:57:34.807		75.17	-33.51	50026.71	10.06		
epsilon	E	2026-10-16T13:59:58.153		74.62	-32.95	51504.14	10.60		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2026-10-16T13:34:02.080
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : AAT
 Location : Siding Spring (AAT)
 Latitude (deg) : -31.27703
 E. Longitude (deg) : 149.06608
 Altitude (km) : 1.164
 Gaia source ID : 51999924967265792
 2Mass ID (if available) : 04112943+2056254
 ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s
 RUWE (>1.4 is poor) : 1.01
 K magnitude : 13.494
 G magnitude : 17.423
 RP magnitude : 16.203
 BP magnitude : 18.978
 DUPflag : 0
 Distance (au) : 18.686
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -15.83
 Sun-Target sep (deg) : 138.04
 Sun-Moon sep (deg) : 155.34
 B (ring opening deg) : 75.12
 PA of pole (deg) : -69.59
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.167
 C/A sky separation (km) : 42925.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl1.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

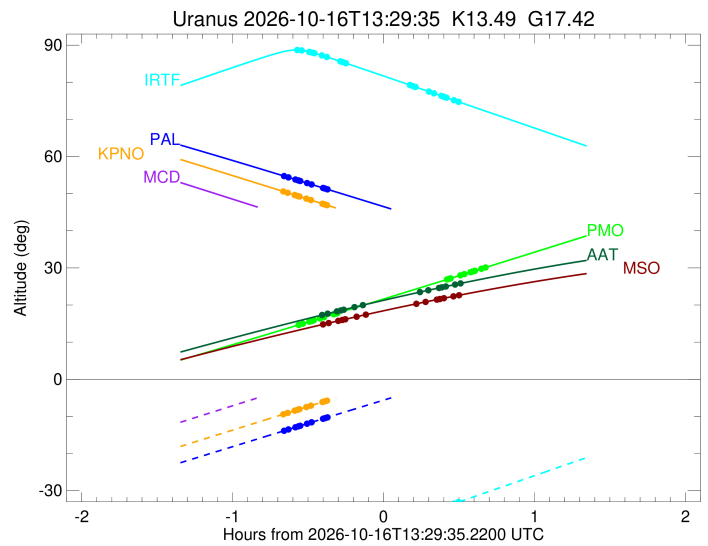
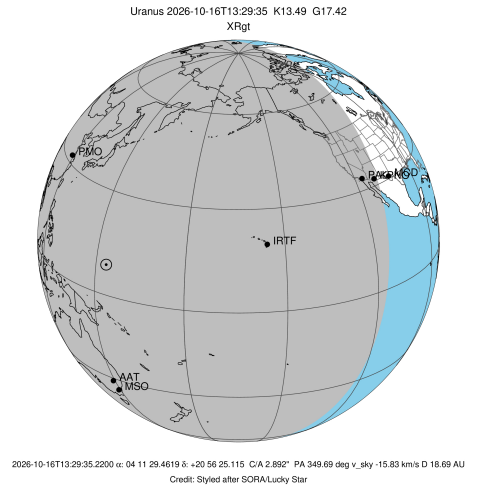


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2026-10-16T13:04:38.742		17.22	-48.48	51442.10	-8.96		
lambda	I	2026-10-16T13:07:24.004		17.68	-48.64	50026.71	-8.24		
delta	I	2026-10-16T13:11:06.074		18.29	-48.85	48300.35	-7.29		
gamma	I	2026-10-16T13:12:41.217		18.56	-48.93	47627.27	-6.85		
eta	I	2026-10-16T13:13:48.610		18.74	-48.99	47176.12	-6.53		
beta	I	2026-10-16T13:18:09.600		19.45	-49.19	45641.50	-5.21		
alpha	I	2026-10-16T13:21:33.716		20.00	-49.33	44693.79	-4.08		

No planet occultations

alpha	E	2026-10-16T13:43:57.055		23.46	-49.85	44707.99	4.09		
beta	E	2026-10-16T13:47:18.943		23.96	-49.87	45647.97	5.22		
eta	E	2026-10-16T13:51:37.778		24.59	-49.87	47176.12	6.56		
gamma	E	2026-10-16T13:52:44.303		24.76	-49.86	47622.97	6.88		
delta	E	2026-10-16T13:54:19.706		24.98	-49.85	48300.35	7.32		
lambda	E	2026-10-16T13:58:00.815		25.51	-49.81	50026.71	8.28		
epsilon	E	2026-10-16T14:00:54.554		25.92	-49.77	51525.19	9.00		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2026-10-16T13:33:55.570
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : MSO
 Location : Mt. Stromlo Observatory
 Latitude (deg) : -35.32000
 E. Longitude (deg) : 149.00833
 Altitude (km) : 0.770
 Gaia source ID : 51999924967265792
 2Mass ID (if available) : 04112943+2056254
 ICRS Star Coord at Epoch: 04h 11m 29.46194s +20:56:25.11539s
 RUWE (>1.4 is poor) : 1.01
 K magnitude : 13.494
 G magnitude : 17.423
 RP magnitude : 16.203
 BP magnitude : 18.978
 DUPflag : 0
 Distance (au) : 18.686
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -15.83
 Sun-Target sep (deg) : 138.04
 Sun-Moon sep (deg) : 155.32
 B (ring opening deg) : 75.12
 PA of pole (deg) : -69.59
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.190
 C/A sky separation (km) : 43236.4
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl1.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	2026-10-16T13:05:00.230		14.69	-44.61	51445.40	-8.79		
lambda	I	2026-10-16T13:07:49.319		15.14	-44.76	50026.71	-8.05		
delta	I	2026-10-16T13:11:37.418		15.73	-44.95	48300.35	-7.07		
gamma	I	2026-10-16T13:13:15.856		15.98	-45.02	47627.19	-6.61		
eta	I	2026-10-16T13:14:25.906		16.16	-45.07	47176.12	-6.27		
beta	I	2026-10-16T13:19:01.380		16.87	-45.26	45641.61	-4.85		
alpha	I	2026-10-16T13:22:45.688		17.43	-45.39	44694.51	-3.60		

No planet occultations

alpha	E	2026-10-16T13:42:30.949		20.31	-45.81	44707.04	3.60		
beta	E	2026-10-16T13:46:13.048		20.82	-45.83	45647.64	4.86		
eta	E	2026-10-16T13:50:46.393		21.45	-45.84	47176.12	6.29		
gamma	E	2026-10-16T13:51:55.584		21.61	-45.83	47623.04	6.63		
delta	E	2026-10-16T13:53:34.295		21.83	-45.83	48300.35	7.09		
lambda	E	2026-10-16T13:57:21.466		22.33	-45.80	50026.71	8.09		
epsilon	E	2026-10-16T14:00:19.047		22.72	-45.76	51526.86	8.84		