

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2027-01-19T02:19:01.490
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Gaia source ID : 51296997736818816
 2Mass ID (if available) : 03573413+2019106

ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s

RUWE (>1.4 is poor) : 0.99
 K magnitude : 14.681
 G magnitude : 16.648
 RP magnitude : 16.014
 BP magnitude : 17.091
 DUPflag : 0
 Distance (au) : 18.867
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -9.92
 Sun-Target sep (deg) : 123.09
 Sun-Moon sep (deg) : 10.22
 B (ring opening deg) : 72.19
 PA of pole (deg) : -76.11

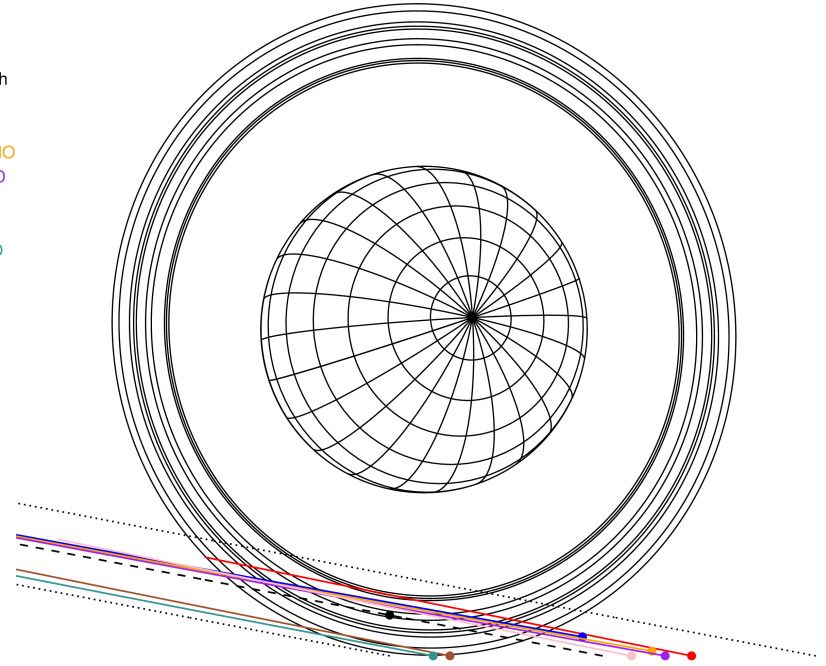
#	a(km)	ring
1	41837.2	6
2	42235.0	5
3	42571.2	4
4	44718.5	alpha
5	45661.1	beta
6	47176.1	eta
7	47626.3	gamma
8	48300.3	delta
9	50026.7	lambda
10	51149.4	epsilon



2027-01-19T02:19:01.4900 α: 03 57 34.1470 δ: +20 19 10.780 C/A 3.280° PA 349.18 deg v_sky - 9.92 km/s D 18.87 AU
 Credit: Styled after SORA/Lucky Star

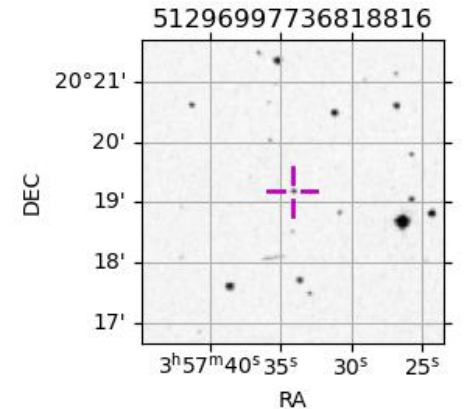
Earth
 PIC
 PAL
 KPNO
 MCD
 TEN
 RIO
 ESO

Uranus 2027-01-19T02:19:01 K14.68 G16.65 XRgt

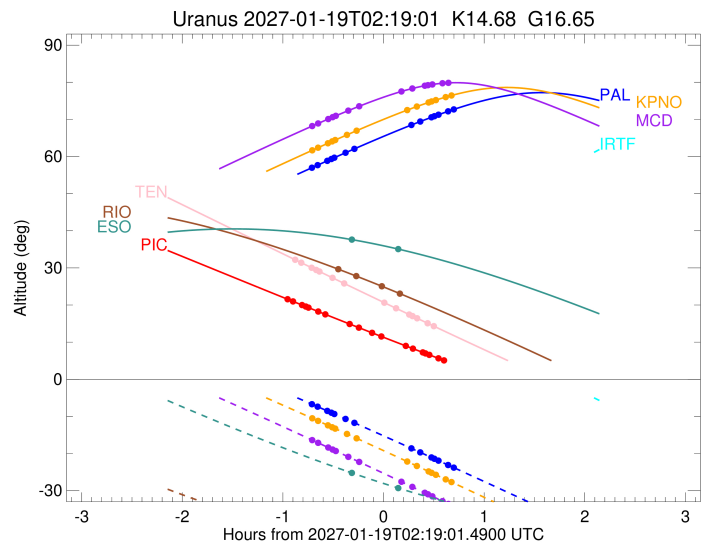
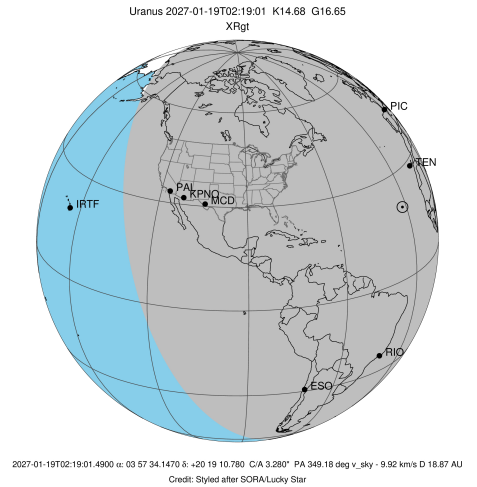


Observable events with sun below -5 deg and altitude above 5 deg unblocked by planet

Obs	Location	lat	Elon	Rings I	Planet	Rings E	Observed Events Interval	OEcode
PIC	Pic du Midi	42.9	0.1	+++++++		+++++++	JAN 19 01:21 - JAN 19 02:54	PnnRie
PAL	Palomar Mt (200")	33.4	243.1	+++++++		+++++++	JAN 19 01:36 - JAN 19 02:59	PnnRie
PNO	Purple Mtn Obs. Nanki	32.1	118.8					PnnRnn
KPNO	Kitt Peak Natl Obs	32.0	248.4	+++++++		+++++++	JAN 19 01:36 - JAN 19 02:58	PnnRie
MCD	McDonald Obs. 2.7m	30.7	256.0	+++++++		+++++++	JAN 19 01:36 - JAN 19 02:56	PnnRie
TEN	Teide Obs./Tenerife	28.3	343.5	+++++++		+++++++	JAN 19 01:26 - JAN 19 02:47	PnnRie
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	++		++	JAN 19 01:52 - JAN 19 02:26	PnnRie
ESO	European Southern Obs	-29.3	289.3	+		+	JAN 19 02:01 - JAN 19 02:25	PnnRie
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 : 2027-01-19T02:10:52.090
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : PIC
 Location : Pic du Midi
 Latitude (deg) : 42.93656
 E. Longitude (deg) : 0.14231
 Altitude (km) : 2.890
 Gaia source ID : 51296997736818816
 2Mass ID (if available) : 03573413+2019106
 ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
 RUWE (>1.4 is poor) : 0.99
 K magnitude : 14.681
 G magnitude : 16.648
 RP magnitude : 16.014
 BP magnitude : 17.091
 DUPflag : 0
 Distance (au) : 18.867
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -9.92
 Sun-Target sep (deg) : 123.09
 Sun-Moon sep (deg) : 9.29
 B (ring opening deg) : 72.19
 PA of pole (deg) : -76.11
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.055
 C/A sky separation (km) : 41799.9
 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_itrf93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk



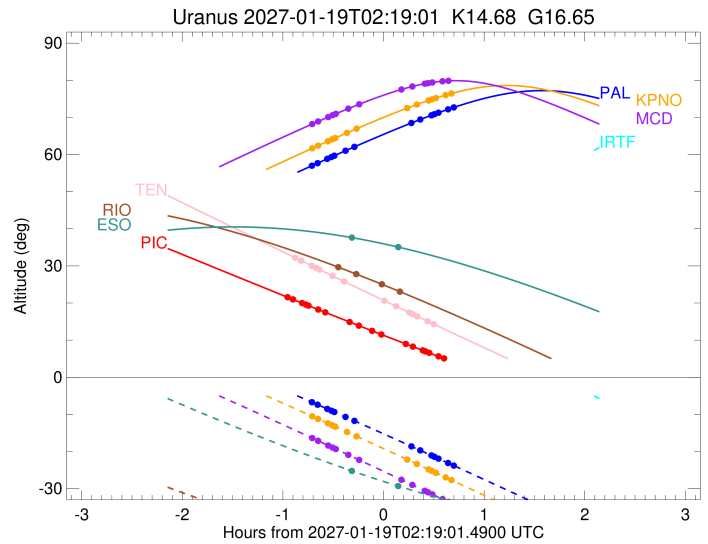
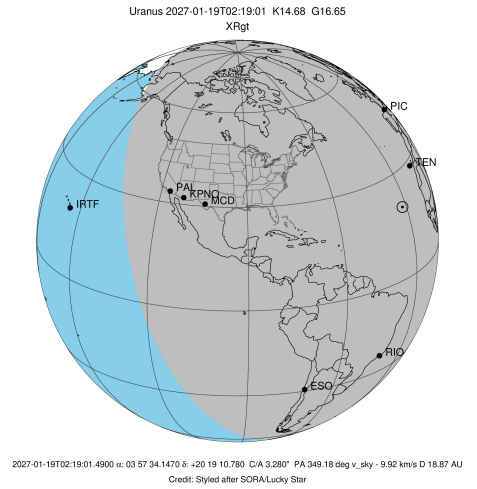
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2027-01-19T01:21:45.119		21.58	-63.06	51189.13	-5.84		
lambda	I	2027-01-19T01:25:06.982		20.96	-62.66	50026.71	-5.60		
delta	I	2027-01-19T01:30:30.063		19.99	-62.00	48300.35	-5.07		
gamma	I	2027-01-19T01:32:46.637		19.57	-61.71	47623.77	-4.83		
eta	I	2027-01-19T01:34:20.938		19.29	-61.50	47176.12	-4.66		
beta	I	2027-01-19T01:40:06.401		18.25	-60.74	45679.97	-3.99		
alpha	I	2027-01-19T01:44:20.500		17.48	-60.16	44732.79	-3.45		
4	I	2027-01-19T01:59:33.235		14.76	-57.97	42526.43	-1.32		
5	I	2027-01-19T02:07:51.151		13.28	-56.71	42181.40	-0.14		

No planet occultations

5	E	2027-01-19T02:08:35.514		13.15	-56.60	42180.22	0.14		
4	E	2027-01-19T02:17:04.119		11.65	-55.26	42529.59	1.32		
alpha	E	2027-01-19T02:32:12.877		9.00	-52.80	44710.29	3.42		
beta	E	2027-01-19T02:36:32.440		8.26	-52.08	45669.43	3.95		
eta	E	2027-01-19T02:42:24.526		7.25	-51.10	47176.12	4.61		
gamma	E	2027-01-19T02:44:01.016		6.97	-50.82	47628.72	4.77		
delta	E	2027-01-19T02:46:18.317		6.58	-50.44	48300.35	5.01		
lambda	E	2027-01-19T02:51:46.004		5.65	-49.50	50026.71	5.52		
epsilon	E	2027-01-19T02:54:01.620		5.26	-49.11	50788.79	5.75		

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2027-01-19T02:21:09.500
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      : 51296997736818816
2Mass ID (if available) : 03573413+2019106
ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
RUWE (>1.4 is poor) : 0.99
K magnitude         : 14.681
G magnitude         : 16.648
RP magnitude        : 16.014
BP magnitude        : 17.091
DUPflag            : 0
Distance (au)       : 18.867
f0 (km)             : 0.000
g0 (km)             : 0.000
skyplane vel. (km/s) : -9.92
Sun-Target sep (deg) : 123.09
Sun-Moon sep (deg)  : 10.49
B (ring opening deg) : 72.19
PA of pole (deg)    : -76.11
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 3.145
C/A sky separation (km) : 43032.4
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_itrf93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
  
```

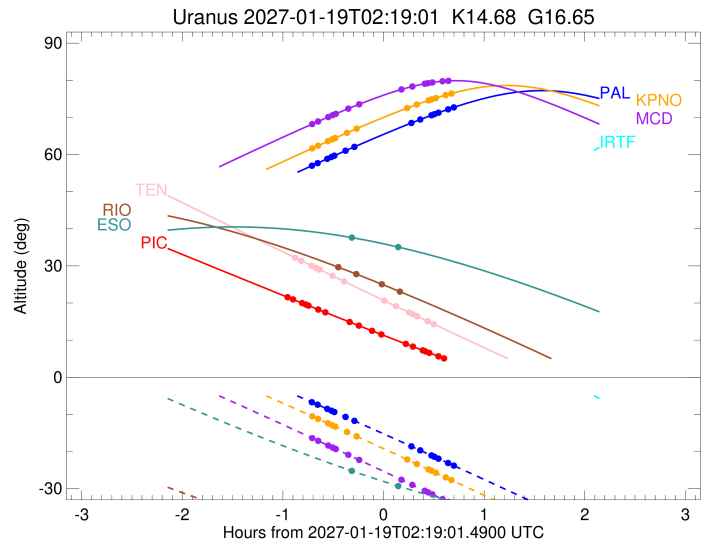
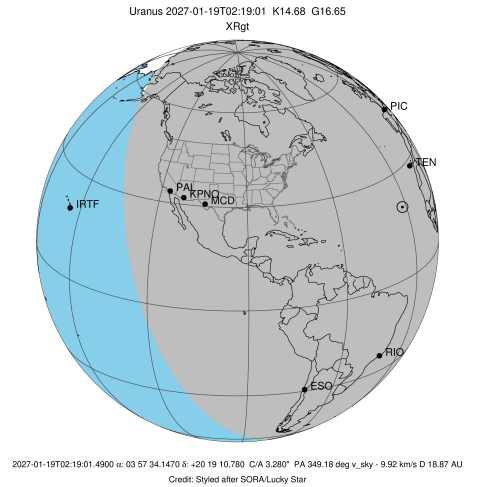


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2027-01-19T01:36:17.151		56.97	-6.71	51180.75	-5.58		
lambda	I	2027-01-19T01:39:47.624		57.69	-7.40	50026.71	-5.31		
delta	I	2027-01-19T01:45:32.701		58.85	-8.53	48300.35	-4.69		
gamma	I	2027-01-19T01:48:01.571		59.35	-9.02	47623.94	-4.40		
eta	I	2027-01-19T01:49:45.858		59.70	-9.37	47176.12	-4.19		
beta	I	2027-01-19T01:56:22.767		61.02	-10.68	45679.57	-3.34		
alpha	I	2027-01-19T02:01:42.102		62.07	-11.75	44730.56	-2.59		

No planet occultations

alpha	E	2027-01-19T02:35:32.992		68.48	-18.59	44714.16	2.59		
beta	E	2027-01-19T02:40:54.922		69.42	-19.69	45671.19	3.34		
eta	E	2027-01-19T02:47:33.729		70.56	-21.05	47176.12	4.20		
gamma	E	2027-01-19T02:49:18.774		70.85	-21.41	47628.33	4.41		
delta	E	2027-01-19T02:51:46.286		71.26	-21.91	48300.35	4.70		
lambda	E	2027-01-19T02:57:30.414		72.17	-23.09	50026.71	5.32		
epsilon	E	2027-01-19T02:59:52.778		72.53	-23.58	50801.78	5.60		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2027-01-19T02:20:34.590
 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 : 51296997736818816
 2Mass ID (if available) : 03573413+2019106
 ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
 RUWE (>1.4 is poor) : 0.99
 K magnitude : 14.681
 G magnitude : 16.648
 RP magnitude : 16.014
 BP magnitude : 17.091
 DUPflag : 0
 Distance (au) : 18.867
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -9.92
 Sun-Target sep (deg) : 123.09
 Sun-Moon sep (deg) : 10.46
 B (ring opening deg) : 72.19
 PA of pole (deg) : -76.11
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.165
 C/A sky separation (km) : 43314.1
 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

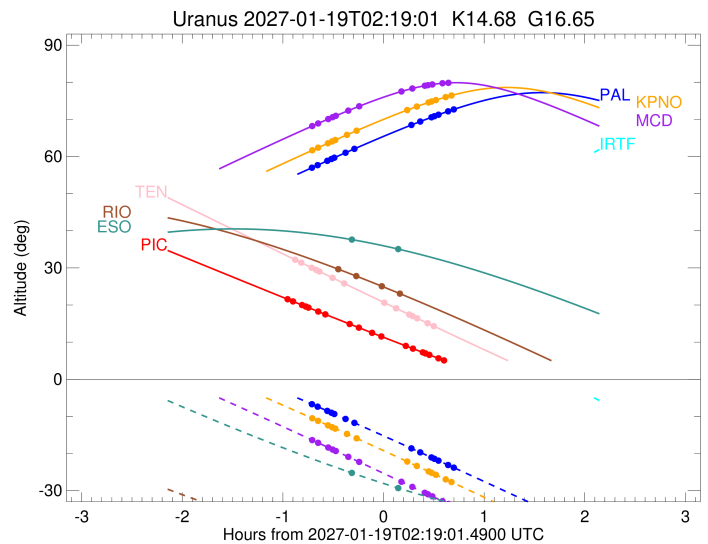
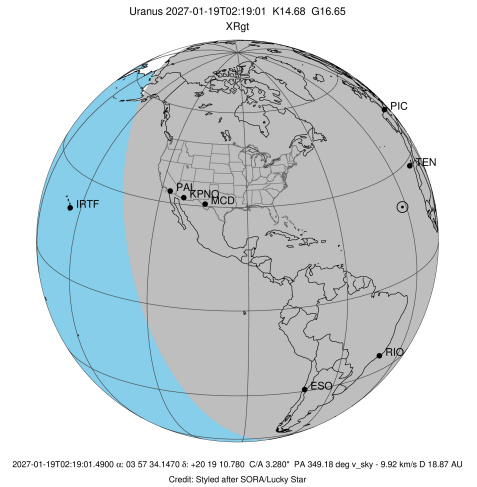


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2027-01-19T01:36:30.364		61.67	-10.50	51176.16	-5.50		
lambda	I	2027-01-19T01:40:03.496		62.39	-11.22	50026.71	-5.21		
delta	I	2027-01-19T01:45:56.183		63.58	-12.42	48300.35	-4.57		
gamma	I	2027-01-19T01:48:29.340		64.09	-12.94	47624.02	-4.26		
eta	I	2027-01-19T01:50:17.160		64.45	-13.31	47176.12	-4.04		
beta	I	2027-01-19T01:57:13.300		65.83	-14.73	45679.40	-3.13		
alpha	I	2027-01-19T02:03:01.351		66.97	-15.92	44729.65	-2.30		

No planet occultations

alpha	E	2027-01-19T02:33:02.356		72.49	-22.13	44715.08	2.31		
beta	E	2027-01-19T02:38:53.144		73.46	-23.35	45671.53	3.14		
eta	E	2027-01-19T02:45:51.431		74.56	-24.81	47176.12	4.05		
gamma	E	2027-01-19T02:47:40.085		74.83	-25.19	47628.26	4.27		
delta	E	2027-01-19T02:50:12.001		75.20	-25.72	48300.35	4.57		
lambda	E	2027-01-19T02:56:04.044		76.00	-26.95	50026.71	5.22		
epsilon	E	2027-01-19T02:58:29.375		76.31	-27.46	50803.89	5.51		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2027-01-19T02:19:38.460
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Observer code : MCD
 Location : McDonald Obs. 2.7m
 Latitude (deg) : 30.67158
 E. Longitude (deg) : 255.97844
 Altitude (km) : 2.075
 Gaia source ID : 51296997736818816
 2Mass ID (if available) : 03573413+2019106
 ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
 RUWE (>1.4 is poor) : 0.99
 K magnitude : 14.681
 G magnitude : 16.648
 RP magnitude : 16.014
 BP magnitude : 17.091
 DUPflag : 0
 Distance (au) : 18.867
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -9.92
 Sun-Target sep (deg) : 123.09
 Sun-Moon sep (deg) : 10.40
 B (ring opening deg) : 72.19
 PA of pole (deg) : -76.11
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 3.189
 C/A sky separation (km) : 43632.3
 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



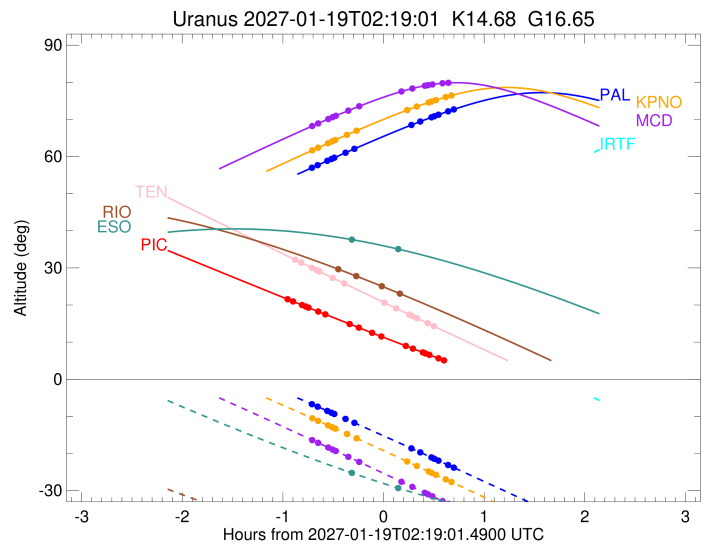
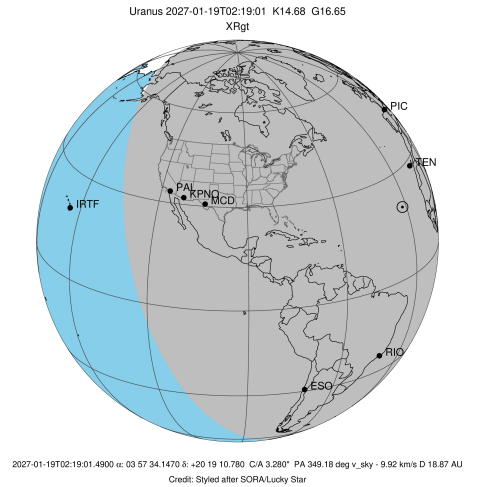
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2027-01-19T01:36:29.477		68.21	-16.38	51170.67	-5.40		
lambda	I	2027-01-19T01:40:05.831		68.92	-17.13	50026.71	-5.10		
delta	I	2027-01-19T01:46:07.959		70.11	-18.40	48300.35	-4.42		
gamma	I	2027-01-19T01:48:46.554		70.62	-18.95	47624.11	-4.10		
eta	I	2027-01-19T01:50:38.929		70.97	-19.34	47176.12	-3.87		
beta	I	2027-01-19T01:58:01.264		72.36	-20.89	45679.17	-2.88		
alpha	I	2027-01-19T02:04:35.015		73.55	-22.28	44728.43	-1.93		

No planet occultations

alpha	E	2027-01-19T02:29:34.298		77.51	-27.58	44716.27	1.93		
beta	E	2027-01-19T02:36:11.012		78.33	-28.99	45671.94	2.88		
eta	E	2027-01-19T02:43:35.887		79.07	-30.57	47176.12	3.87		
gamma	E	2027-01-19T02:45:29.214		79.22	-30.97	47628.19	4.11		
delta	E	2027-01-19T02:48:06.751		79.42	-31.53	48300.35	4.42		
lambda	E	2027-01-19T02:54:08.710		79.74	-32.82	50026.71	5.10		
epsilon	E	2027-01-19T02:56:37.687		79.82	-33.36	50806.28	5.40		

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2027-01-19T02:10:12.520
Event type          : XRgt
: No Uranus occs
: Ring occs: geocentric, topocentric
Observer code       : TEN
Location            : Teide Obs./Tenerife
Latitude (deg)      : 28.30050
E. Longitude (deg)  : 343.48909
Altitude (km)       : 2.395
Gaia source ID      : 51296997736818816
2Mass ID (if available) : 03573413+2019106
ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
RUWE (>1.4 is poor) : 0.99
K magnitude         : 14.681
G magnitude         : 16.648
RP magnitude        : 16.014
BP magnitude        : 17.091
DUPflag            : 0
Distance (au)       : 18.867
f0 (km)             : 0.000
g0 (km)             : 0.000
skyplane vel. (km/s) : -9.92
Sun-Target sep (deg) : 123.09
Sun-Moon sep (deg)  : 9.41
B (ring opening deg) : 72.19
PA of pole (deg)    : -76.11
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 3.194
C/A sky separation (km) : 43702.3
NAIF SPICE kernels  : RAJobs_U111+rgf15.spk
URKALLvl1.spk
urall11.bsp
IAU_URANUS_for_RINGFIT.tpc
vgr2.urall11.bsp
ural61.bsp
vgr2.ural61.bsp
peph.ural60.bsp
earthstns_itrf93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
  
```



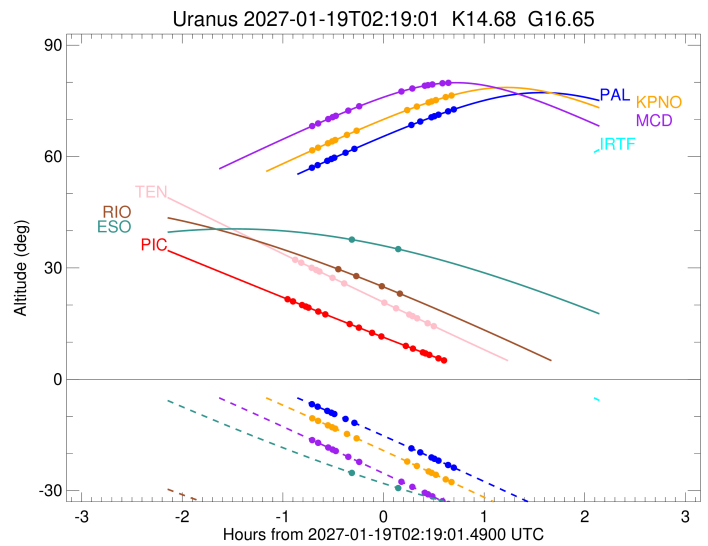
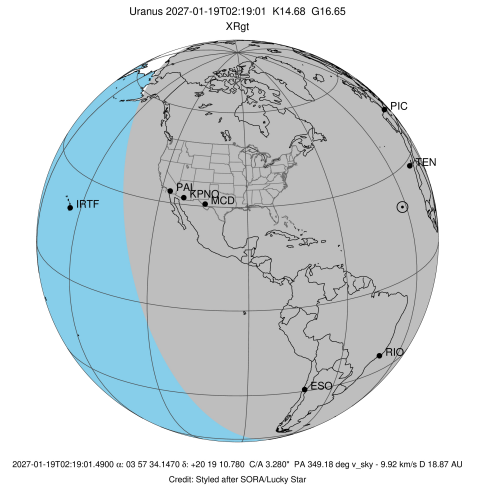
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2027-01-19T01:26:22.670		32.19	-81.96	51160.81	-5.27		
lambda	I	2027-01-19T01:30:02.349		31.39	-81.69	50026.71	-4.98		
delta	I	2027-01-19T01:36:14.382		30.03	-81.07	48300.35	-4.29		
gamma	I	2027-01-19T01:38:57.927		29.43	-80.74	47624.23	-3.97		
eta	I	2027-01-19T01:40:54.176		29.01	-80.49	47176.12	-3.74		
beta	I	2027-01-19T01:48:35.592		27.33	-79.37	45678.91	-2.74		
alpha	I	2027-01-19T01:55:38.244		25.80	-78.21	44727.34	-1.75		

No planet occultations

alpha	E	2027-01-19T02:19:21.310		20.66	-73.75	44716.05	1.74		
beta	E	2027-01-19T02:26:29.549		19.13	-72.31	45671.75	2.72		
eta	E	2027-01-19T02:34:17.867		17.45	-70.70	47176.12	3.70		
gamma	E	2027-01-19T02:36:16.387		17.03	-70.28	47628.26	3.93		
delta	E	2027-01-19T02:39:00.811		16.44	-69.71	48300.35	4.24		
lambda	E	2027-01-19T02:45:17.821		15.10	-68.39	50026.71	4.90		
epsilon	E	2027-01-19T02:47:52.136		14.55	-67.84	50802.90	5.19		

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2027-01-19T02:13:21.500
Event type           : XRgt
: No Uranus occs
: Ring occs: geocentric, topocentric
Observer code        : RIO
Location             : Rio de Janeiro
Latitude (deg)       : -22.89506
E. Longitude (deg)   : 316.77708
Altitude (km)        : 0.033
Gaia source ID       : 51296997736818816
2Mass ID (if available) : 03573413+2019106
ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
RUWE (>1.4 is poor) : 0.99
K magnitude          : 14.681
G magnitude          : 16.648
RP magnitude         : 16.014
BP magnitude         : 17.091
DUPflag             : 0
Distance (au)        : 18.867
f0 (km)              : 0.000
g0 (km)              : 0.000
skyplane vel. (km/s) : -9.92
Sun-Target sep (deg) : 123.09
Sun-Moon sep (deg)   : 10.19
B (ring opening deg) : 72.19
PA of pole (deg)     : -76.11
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 3.608
C/A sky separation (km) : 49371.0
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_itrf93_040916.bsp
earth_720101_070426.bpc
earth_200101_990628_predict.bpc
pg3f0000r.bsp
pg490000r.bsp
naif0012.tls
earth_flat_IAU.spk
  
```



```

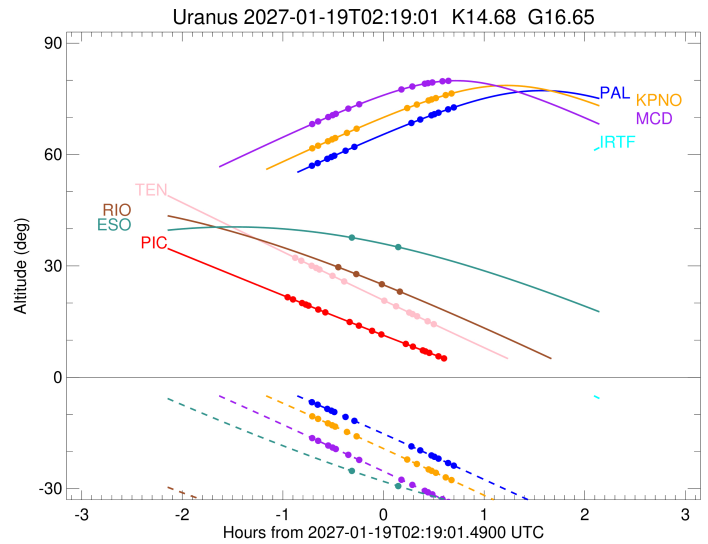
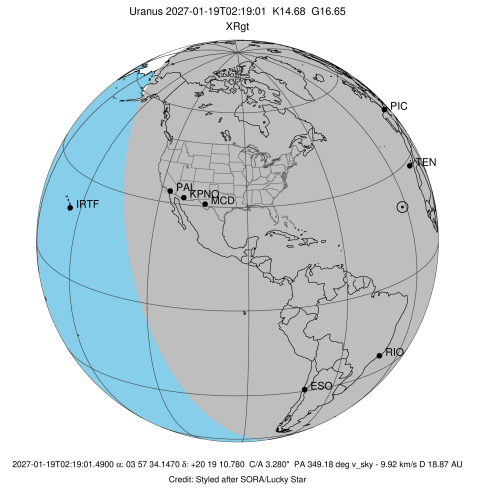
b: ring blocked by planet  x: target alt < 5.0 deg or sun > -5.0 deg
Ring      I/E      UTC      b? alt  alt-sun  radius  r-dot  lat-geo lat-geodetic
-----
epsilon   I  2027-01-19T01:52:56.412  29.50 -43.54  51037.89 -2.25
lambda    I  2027-01-19T02:03:01.486  27.75 -44.39  50026.71 -1.00

No planet occultations

lambda    E  2027-01-19T02:17:47.813  25.10 -45.43  50026.71  1.00
epsilon   E  2027-01-19T02:26:47.701  23.44 -45.93  50886.30  2.24
  
```

```

target                : Uranus
target radius (km)   : 25559.00
C/A epoch            : 2027-01-19T02:16:54.390
Event type          : XRgt
: No Uranus occs
: Ring occs: geocentric, topocentric
Observer code       : ESO
Location            : European Southern Obs. (3.6m)
Latitude (deg)      : -29.26097
E. Longitude (deg)  : 289.26831
Altitude (km)       : 2.400
Gaia source ID      : 51296997736818816
2Mass ID (if available) : 03573413+2019106
ICRS Star Coord at Epoch: 03h 57m 34.14698s +20:19:10.77995s
RUWE (>1.4 is poor) : 0.99
K magnitude          : 14.681
G magnitude          : 16.648
RP magnitude         : 16.014
BP magnitude         : 17.091
DUPflag             : 0
Distance (au)        : 18.867
f0 (km)              : 0.000
g0 (km)              : 0.000
skyplane vel. (km/s) : -9.92
Sun-Target sep (deg) : 123.09
Sun-Moon sep (deg)  : 10.59
B (ring opening deg) : 72.19
PA of pole (deg)    : -76.11
Pole direction: RA (deg): 257.31100
Dec (deg): -15.17500
C/A sky separation (") : 3.651
C/A sky separation (km) : 49961.1
NAIF SPICE kernels  : RAJobs_U111+rgf15.spk
URKALLvl1.spk
urall1.bsp
IAU_URANUS_for_RINGFIT.tpc
vgr2.urall1.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  2027-01-19T02:01:32.924  37.51 -25.44  51016.23  -1.60

No planet occultations

epsilon   E  2027-01-19T02:25:18.449  35.33 -28.96  50908.73  1.60
    
```