

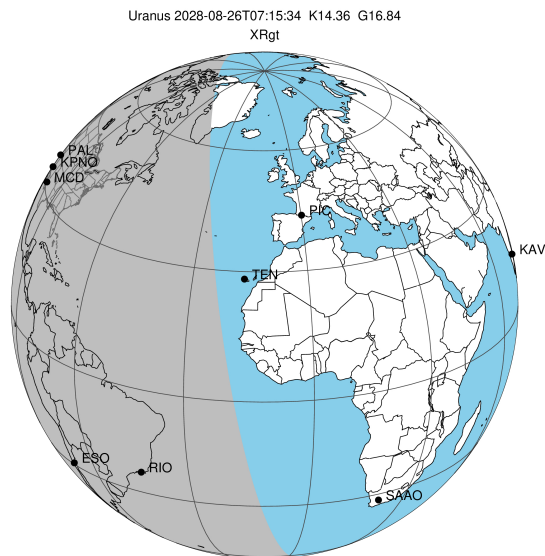
target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2028-08-26T07:15:34.570
 Event type : XRgt
 : No Uranus occs
 : Ring occs: geocentric, topocentric
 Gaia source ID : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165

ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s

RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 159.54
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63

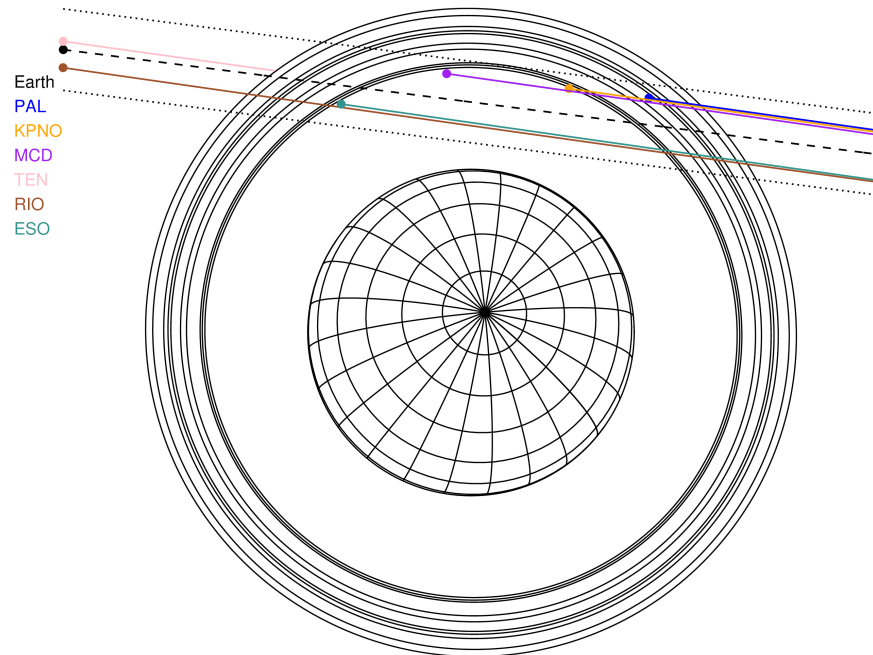
a(km) ring

- 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



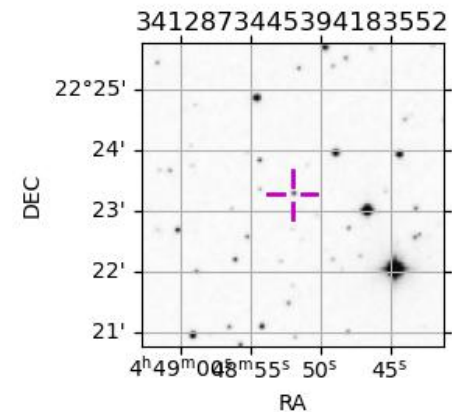
2028-08-26T07:15:34.5700 ex: 04 48 51.9796 s: +22 23 16.455 C/A 2.538° PA 172.67 deg v_sky +11.70 km/s D 19.47 AU
 Credit: Styled after SORA/Lucky Star

Uranus 2028-08-26T07:15:34 K14.36 G16.84 XRgt

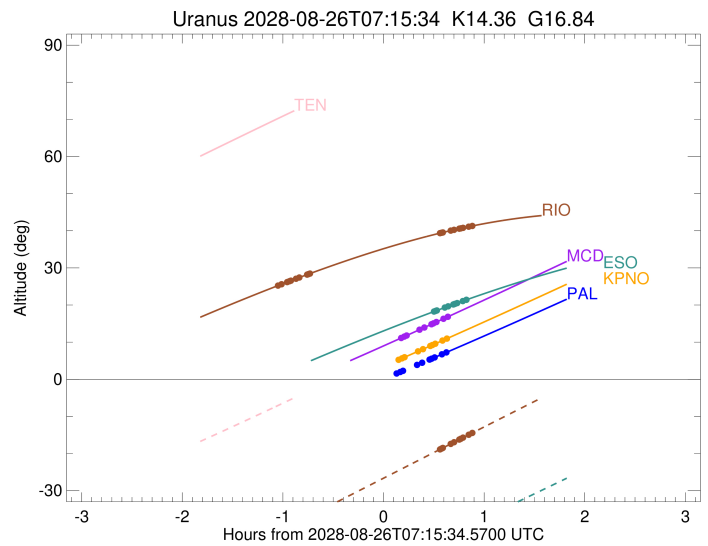
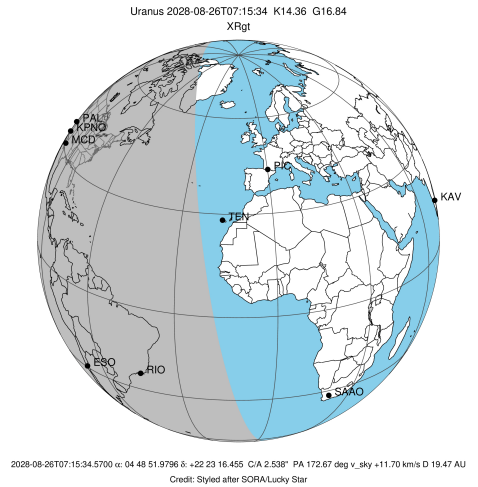


Observable events with sun below -5 deg and altitude above 5 deg unblocked by planet

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			+++++	AUG 26 07:43 - AUG 26 07:53	PnnRne
PMO	Purple Mtn Obs. Nanki	32.1	118.8					PnnRnn
KPNO	Kitt Peak Natl Obs	32.0	248.4			+++++	AUG 26 07:24 - AUG 26 07:53	PnnRne
MCD	McDonald Obs. 2.7m	30.7	256.0			+++++	AUG 26 07:26 - AUG 26 07:54	PnnRne
TEN	Teide Obs./Tenerife	28.3	343.5	+			AUG 26 06:21 - AUG 26 06:21	PnnRin
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	+++++		+++++	AUG 26 06:12 - AUG 26 08:08	PnnRie
ESO	European Southern Obs	-29.3	289.3			+++++	AUG 26 07:45 - AUG 26 08:05	PnnRne
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 : 2028-08-26T07:09:39.460
 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 : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165
 ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s
 RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 158.75
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.848
 C/A sky separation (km) : 40221.8
 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_itrf93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk

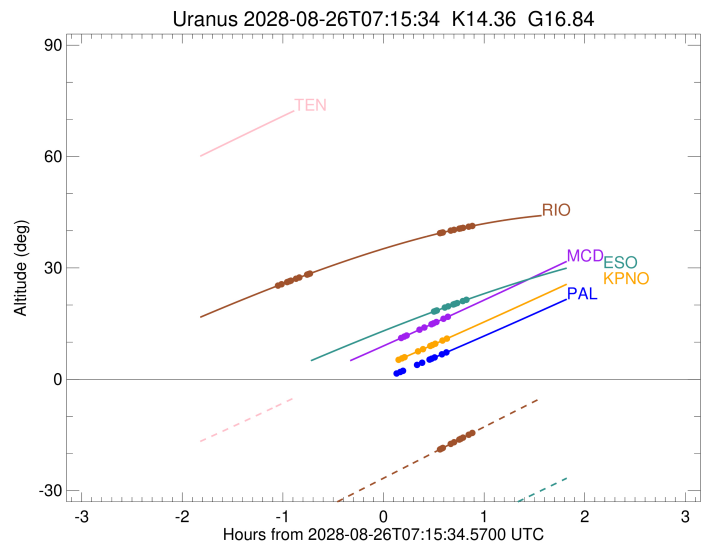
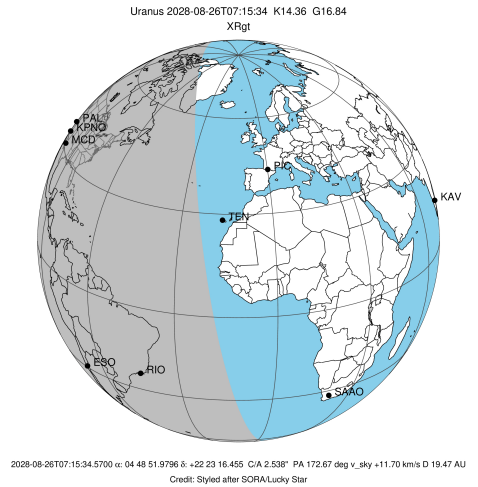


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2028-08-26T06:24:39.599	-9.09x	-42.18	51529.03	-7.37			
lambda	I	2028-08-26T06:28:09.583	-8.49x	-42.52	50026.71	-6.96			
delta	I	2028-08-26T06:32:26.866	-7.74x	-42.93	48300.35	-6.45			
gamma	I	2028-08-26T06:34:12.393	-7.43x	-43.09	47631.56	-6.22			
eta	I	2028-08-26T06:35:26.541	-7.21x	-43.20	47176.12	-6.06			
beta	I	2028-08-26T06:39:47.593	-6.44x	-43.58	45672.73	-5.45			
alpha	I	2028-08-26T06:42:49.382	-5.90x	-43.83	44724.56	-4.97			
4	I	2028-08-26T06:51:08.757	-4.41x	-44.48	42579.24	-3.56			
5	I	2028-08-26T06:52:41.095	-4.13x	-44.59	42267.95	-3.27			
6	I	2028-08-26T06:54:46.897	-3.75x	-44.73	41870.10	-2.89			

No planet occultations

6	E	2028-08-26T07:23:24.464	1.56x	-46.20	41853.43	2.87			
5	E	2028-08-26T07:25:23.668	1.93x	-46.27	42224.10	3.25			
4	E	2028-08-26T07:27:02.798	2.24x	-46.32	42552.21	3.54			
alpha	E	2028-08-26T07:35:26.948	3.84x	-46.51	44697.03	4.93			
beta	E	2028-08-26T07:38:37.827	4.45x	-46.57	45681.23	5.40			
eta	E	2028-08-26T07:42:59.922	5.29	-46.61	47176.12	6.00			
gamma	E	2028-08-26T07:44:14.359	5.53	-46.62	47628.31	6.15			
delta	E	2028-08-26T07:46:01.630	5.87	-46.63	48300.35	6.37			
lambda	E	2028-08-26T07:50:22.126	6.71	-46.64	50026.71	6.87			
epsilon	E	2028-08-26T07:53:34.038	7.33	-46.63	51377.70	7.26			

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2028-08-26T07:09:21.830
 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 : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165
 ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s
 RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 158.75
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.830
 C/A sky separation (km) : 39957.6
 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

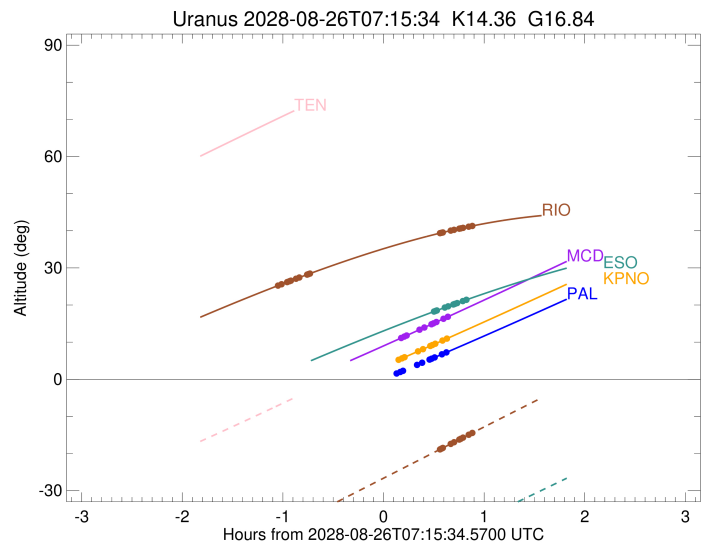
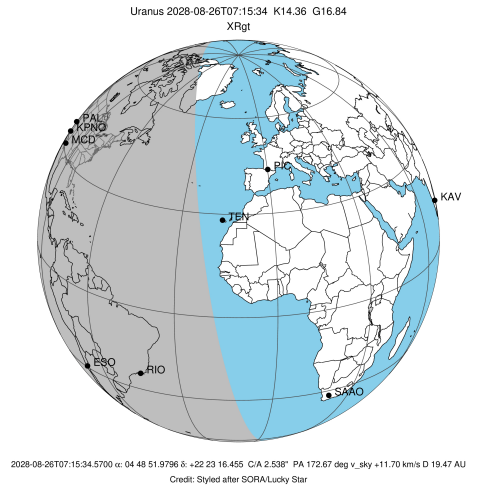


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2028-08-26T06:23:47.446	-6.27x	-45.28	51527.95	-7.43			
lambda	I	2028-08-26T06:27:15.337	-5.64x	-45.55	50026.71	-7.03			
delta	I	2028-08-26T06:31:29.628	-4.86x	-45.88	48300.35	-6.54			
gamma	I	2028-08-26T06:33:13.681	-4.54x	-46.00	47631.57	-6.32			
eta	I	2028-08-26T06:34:26.690	-4.32x	-46.09	47176.12	-6.16			
beta	I	2028-08-26T06:38:42.923	-3.53x	-46.38	45672.54	-5.57			
alpha	I	2028-08-26T06:41:40.185	-2.98x	-46.57	44725.00	-5.11			
4	I	2028-08-26T06:49:39.559	-1.48x	-47.02	42580.10	-3.78			
5	I	2028-08-26T06:51:05.849	-1.20x	-47.09	42269.50	-3.51			
6	I	2028-08-26T06:53:02.175	-0.84x	-47.18	41870.74	-3.17			

No planet occultations

6	E	2028-08-26T07:24:34.785	5.24	-48.02	41852.41	3.15			
5	E	2028-08-26T07:26:24.523	5.60	-48.02	42222.28	3.49			
4	E	2028-08-26T07:27:57.642	5.90	-48.02	42551.35	3.76			
alpha	E	2028-08-26T07:36:01.953	7.50	-47.98	44696.64	5.07			
beta	E	2028-08-26T07:39:08.390	8.11	-47.95	45681.23	5.51			
eta	E	2028-08-26T07:43:25.779	8.96	-47.87	47176.12	6.09			
gamma	E	2028-08-26T07:44:39.111	9.21	-47.84	47628.26	6.24			
delta	E	2028-08-26T07:46:24.963	9.56	-47.80	48300.35	6.46			
lambda	E	2028-08-26T07:50:42.607	10.42	-47.68	50026.71	6.94			
epsilon	E	2028-08-26T07:53:52.435	11.05	-47.58	51374.61	7.32			

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2028-08-26T07:09:06.060
 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 : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165
 ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s
 RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 158.77
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.805
 C/A sky separation (km) : 39603.5
 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

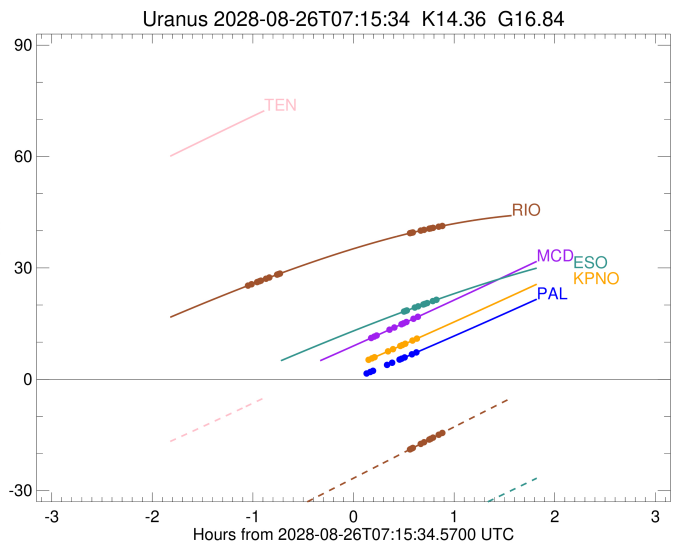
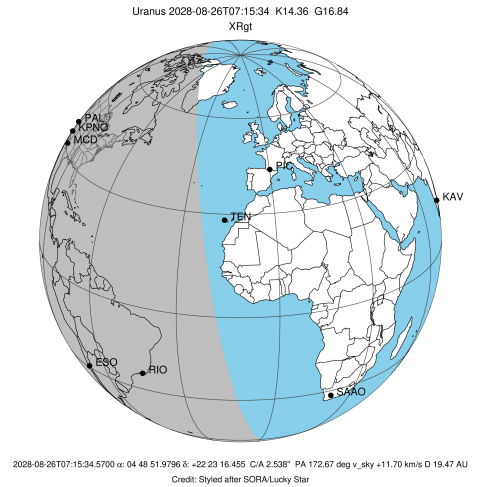


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2028-08-26T06:22:44.149	-1.44x	-48.43	51526.47	-7.51			
lambda	I	2028-08-26T06:26:09.503	-0.78x	-48.59	50026.71	-7.12			
delta	I	2028-08-26T06:30:20.179	0.03x	-48.77	48300.35	-6.64			
gamma	I	2028-08-26T06:32:02.451	0.36x	-48.83	47631.57	-6.43			
eta	I	2028-08-26T06:33:14.087	0.59x	-48.87	47176.12	-6.28			
beta	I	2028-08-26T06:37:24.537	1.40x	-49.01	45672.28	-5.72			
alpha	I	2028-08-26T06:40:16.425	1.96x	-49.08	44725.57	-5.29			
4	I	2028-08-26T06:47:53.221	3.46x	-49.23	42581.18	-4.05			
5	I	2028-08-26T06:49:13.118	3.72x	-49.25	42271.39	-3.81			
6	I	2028-08-26T06:50:59.889	4.07x	-49.27	41871.50	-3.50			

No planet occultations

6	E	2028-08-26T07:26:06.597	11.12	-48.75	41851.16	3.48
5	E	2028-08-26T07:27:46.784	11.46	-48.68	42220.04	3.78
4	E	2028-08-26T07:29:13.554	11.75	-48.62	42550.28	4.02
alpha	E	2028-08-26T07:36:55.462	13.33	-48.24	44696.15	5.24
beta	E	2028-08-26T07:39:56.622	13.94	-48.08	45681.22	5.66
eta	E	2028-08-26T07:44:08.346	14.81	-47.82	47176.12	6.21
gamma	E	2028-08-26T07:45:20.339	15.05	-47.74	47628.18	6.35
delta	E	2028-08-26T07:47:04.469	15.41	-47.63	48300.35	6.56
lambda	E	2028-08-26T07:51:18.644	16.29	-47.34	50026.71	7.02
epsilon	E	2028-08-26T07:54:25.910	16.93	-47.11	51370.55	7.39

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2028-08-26T07:15:15.670
 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 : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165
 ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s
 RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 159.79
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.584
 C/A sky separation (km) : 36494.8
 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_itrf93_040916.bsp
 earth_720101_070426.bpc
 earth_200101_990628_predict.bpc
 pg3f0000r.bsp
 pg490000r.bsp
 naif0012.tls
 earth_flat_IAU.spk

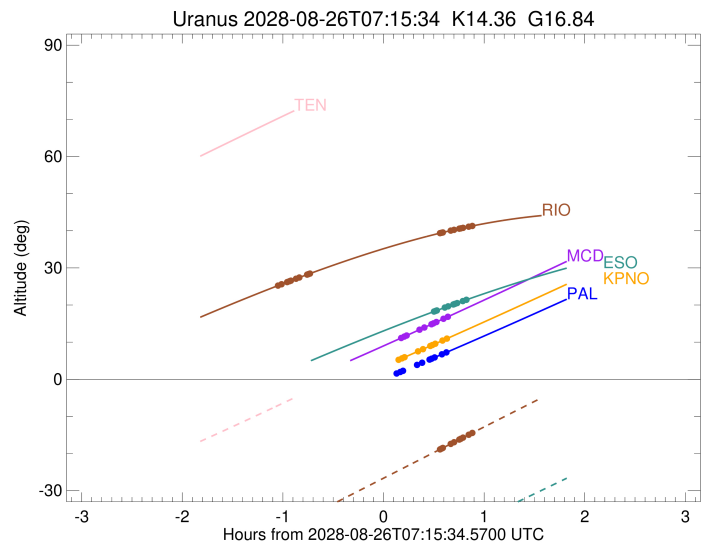
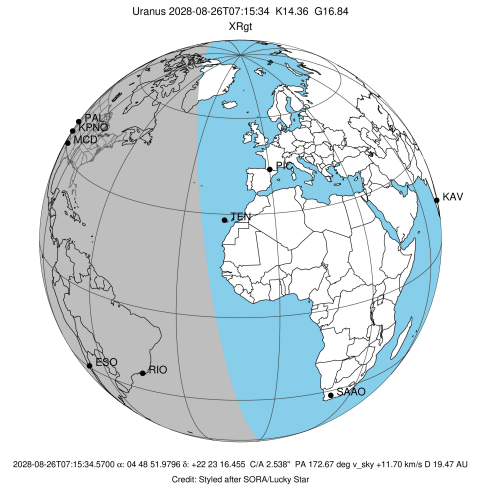


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2028-08-26T06:21:56.265		72.24	-5.09	51510.22	-7.98		
lambda	I	2028-08-26T06:25:05.882		72.92	-4.42x	50026.71	-7.69		
delta	I	2028-08-26T06:28:55.286		73.73	-3.60x	48300.35	-7.35		
gamma	I	2028-08-26T06:30:27.171		74.06	-3.27x	47631.57	-7.20		
eta	I	2028-08-26T06:31:30.853		74.28	-3.05x	47176.12	-7.10		
beta	I	2028-08-26T06:35:08.797		75.04	-2.27x	45669.97	-6.72		
alpha	I	2028-08-26T06:37:31.623		75.54	-1.75x	44730.25	-6.43		
4	I	2028-08-26T06:43:23.939		76.75	-0.49x	42588.94	-5.69		
5	I	2028-08-26T06:44:18.749		76.94	-0.29x	42284.15	-5.55		
6	I	2028-08-26T06:45:31.922		77.18	-0.03x	41875.81	-5.39		

No planet occultations

6	E	2028-08-26T07:43:55.096		84.05	12.70x	41843.47	5.38		
5	E	2028-08-26T07:45:00.902		83.97	12.94x	42206.52	5.54		
4	E	2028-08-26T07:46:02.377		83.89	13.17x	42543.90	5.67		
alpha	E	2028-08-26T07:51:57.267		83.29	14.47x	44693.03	6.41		
beta	E	2028-08-26T07:54:28.395		82.97	15.02x	45681.01	6.69		
eta	E	2028-08-26T07:58:05.571		82.46	15.82x	47176.12	7.07		
gamma	E	2028-08-26T07:59:08.990		82.30	16.05x	47627.66	7.17		
delta	E	2028-08-26T08:00:41.837		82.06	16.39x	48300.35	7.32		
lambda	E	2028-08-26T08:04:32.345		81.43	17.24x	50026.71	7.66		
epsilon	E	2028-08-26T08:07:21.565		80.94	17.86x	51341.46	7.94		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2028-08-26T07:10:50.170
 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 : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165
 ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s
 RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 159.35
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.271
 C/A sky separation (km) : 32069.0
 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

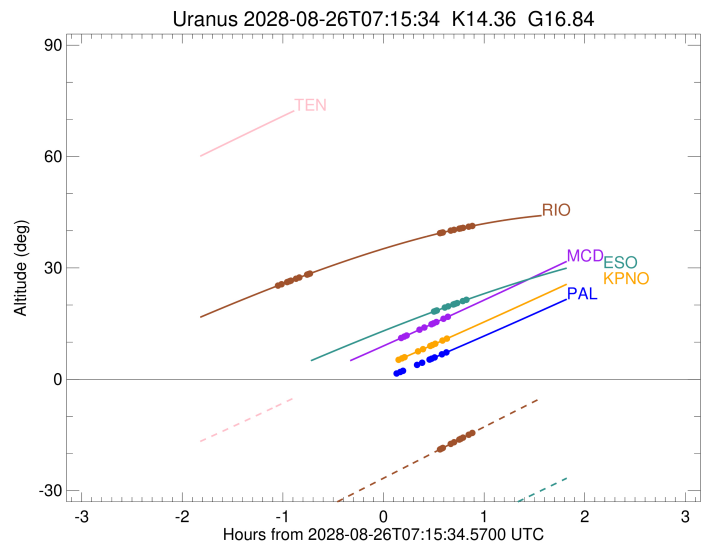
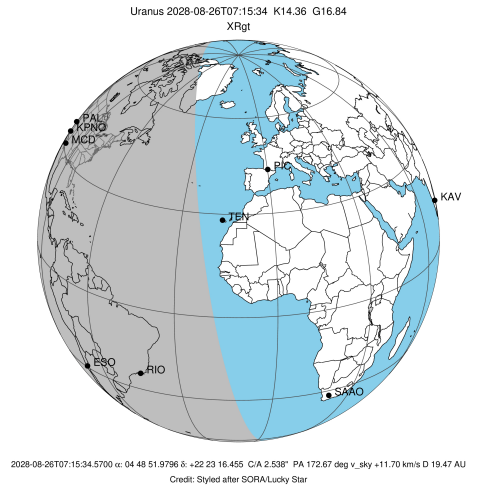


Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
epsilon	I	2028-08-26T06:12:03.931		25.12	-41.28	51487.11	-8.96		
lambda	I	2028-08-26T06:14:49.163		25.60	-40.64	50026.71	-8.75		
delta	I	2028-08-26T06:18:09.170		26.18	-39.88	48300.35	-8.51		
gamma	I	2028-08-26T06:19:28.223		26.41	-39.58	47631.47	-8.41		
eta	I	2028-08-26T06:20:22.595		26.56	-39.37	47176.12	-8.34		
beta	I	2028-08-26T06:23:26.307		27.08	-38.67	45667.26	-8.09		
alpha	I	2028-08-26T06:25:22.910		27.41	-38.22	44734.97	-7.90		
4	I	2028-08-26T06:30:01.537		28.19	-37.15	42596.00	-7.43		
5	I	2028-08-26T06:30:42.578		28.30	-36.99	42294.77	-7.35		
6	I	2028-08-26T06:31:38.807		28.46	-36.78	41878.45	-7.26		

No planet occultations

6	E	2028-08-26T07:49:13.934		39.36	-18.90	41835.07	7.19		
5	E	2028-08-26T07:50:03.110		39.45	-18.71	42192.69	7.28		
4	E	2028-08-26T07:50:50.999		39.54	-18.52	42537.62	7.36		
alpha	E	2028-08-26T07:55:34.005		40.04	-17.44	44689.70	7.81		
beta	E	2028-08-26T07:57:39.610		40.25	-16.96	45680.30	7.99		
eta	E	2028-08-26T08:00:43.861		40.56	-16.25	47176.12	8.24		
gamma	E	2028-08-26T08:01:38.359		40.65	-16.04	47626.91	8.31		
delta	E	2028-08-26T08:02:58.966		40.78	-15.73	48300.35	8.40		
lambda	E	2028-08-26T08:06:21.626		41.10	-14.96	50026.71	8.63		
epsilon	E	2028-08-26T08:08:47.401		41.33	-14.40	51295.75	8.83		

target : Uranus
 target radius (km) : 25559.00
 C/A epoch : 2028-08-26T07:08:37.610
 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 : 3412873445394183552
 2Mass ID (if available) : 04485197+2223165
 ICRS Star Coord at Epoch: 04h 48m 51.97955s +22:23:16.45458s
 RUWE (>1.4 is poor) : 1.39
 K magnitude : 14.362
 G magnitude : 16.844
 RP magnitude : 16.038
 BP magnitude : 17.505
 DUPflag : 0
 Distance (au) : 19.470
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : 11.70
 Sun-Target sep (deg) : 79.59
 Sun-Moon sep (deg) : 158.99
 B (ring opening deg) : 81.33
 PA of pole (deg) : -34.63
 Pole direction: RA (deg): 257.31100
 Dec (deg): -15.17500
 C/A sky separation (") : 2.305
 C/A sky separation (km) : 32543.6
 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	2028-08-26T06:11:16.727	0.93x	-62.31	51490.06	-9.01			
lambda	I	2028-08-26T06:14:01.424	1.46x	-61.84	50026.71	-8.79			
delta	I	2028-08-26T06:17:20.645	2.11x	-61.26	48300.35	-8.54			
gamma	I	2028-08-26T06:18:39.475	2.37x	-61.02	47631.49	-8.43			
eta	I	2028-08-26T06:19:33.728	2.54x	-60.86	47176.12	-8.36			
beta	I	2028-08-26T06:22:37.212	3.14x	-60.32	45667.57	-8.09			
alpha	I	2028-08-26T06:24:33.997	3.51x	-59.96	44734.46	-7.89			
4	I	2028-08-26T06:29:13.611	4.41x	-59.11	42595.27	-7.39			
5	I	2028-08-26T06:29:54.967	4.54x	-58.98	42293.72	-7.30			
6	I	2028-08-26T06:30:51.445	4.72x	-58.81	41878.24	-7.20			

No planet occultations

6	E	2028-08-26T07:45:38.947	18.24	-43.75	41835.74	7.12			
5	E	2028-08-26T07:46:28.636	18.38	-43.57	42193.74	7.21			
4	E	2028-08-26T07:47:16.891	18.51	-43.40	42538.08	7.30			
alpha	E	2028-08-26T07:52:01.720	19.30	-42.39	44689.94	7.78			
beta	E	2028-08-26T07:54:07.804	19.65	-41.95	45680.37	7.97			
eta	E	2028-08-26T07:57:12.496	20.15	-41.29	47176.12	8.22			
gamma	E	2028-08-26T07:58:07.080	20.30	-41.10	47626.97	8.30			
delta	E	2028-08-26T07:59:27.753	20.52	-40.81	48300.35	8.40			
lambda	E	2028-08-26T08:02:50.408	21.06	-40.09	50026.71	8.64			
epsilon	E	2028-08-26T08:05:16.428	21.45	-39.57	51299.22	8.85			