

target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:30:09.820
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : Ring occs: geocentric, topocentric
 Gaia source ID : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011

Saturn 2034-01-01T22:30:09 K9.83 G10.81 PgtRgt

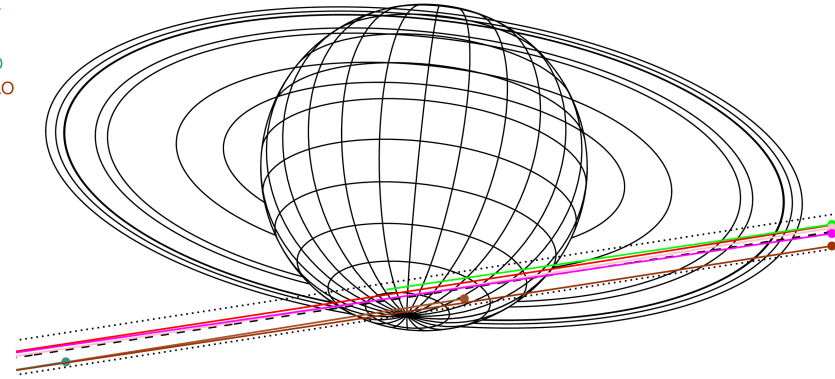
ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s

RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 45.00
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64

Saturn 2034-01-01T22:30:09 K9.83 G10.81
 PgtRgt



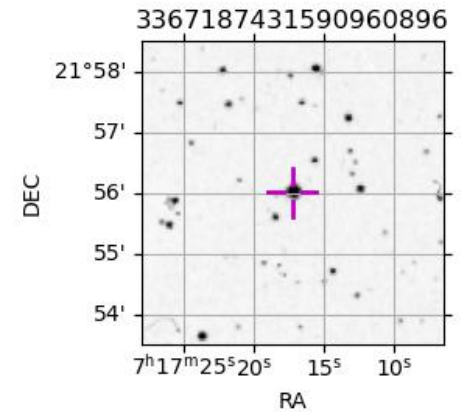
Earth
 PIC
 PMO
 TEN
 KAV
 RIO
 ESO
 SAAO



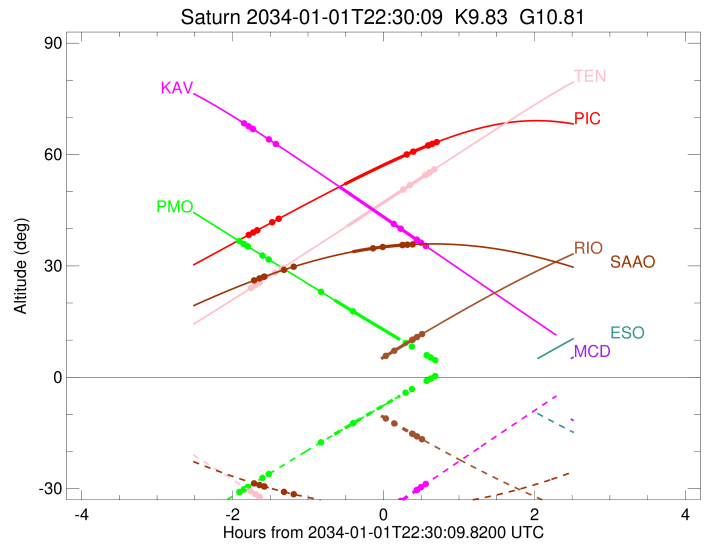
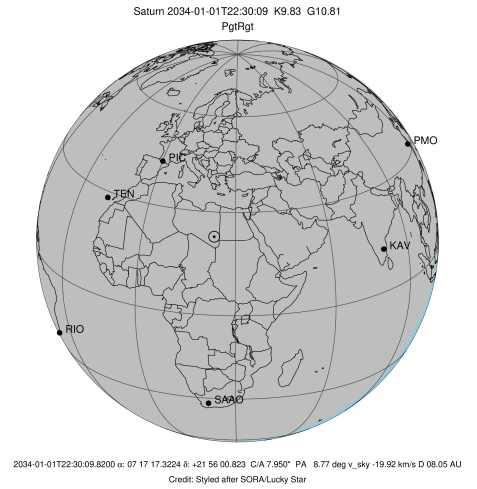
2034-01-01T22:30:09.8200 a: 07 17 17.3224 s: +21 56 00.823 C/A 7.950° PA 8.77 deg v_sky -19.92 km/s D 08.05 AU
 Credit: Styled after SORA/Lucky Star

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 01 20:43 - JAN 01 23:12	PieRie
PAL	Palomar Mt (20	33.4	243.1					PnnRnn
PMO	Purple Mtn Obs	32.1	118.8	+	+		JAN 01 20:35 - JAN 01 21:51	PinRin
KPNO	Kitt Peak Natl	32.0	248.4					PnnRnn
MCD	McDonald Obs.	30.7	256.0					PnnRnn
TEN	Teide Obs./Ten	28.3	343.5	+	+	+	JAN 01 20:44 - JAN 01 23:10	PieRie
IRTF	Mauna Kea/IRTF	19.8	204.5					PnnRnn
KAV	Kavalur Observ	12.6	78.8	+	+	+	JAN 01 20:39 - JAN 01 23:03	PieRie
RIO	Rio de Janeiro	-22.9	316.8		+		JAN 01 23:00 - JAN 01 23:00	PneRne
ESO	European South	-29.3	289.3			+		PnnRnn
AAT	Siding Spring	-31.3	149.1					PnnRnn
SAAO	So. Afr. Astro	-32.4	20.8	+	+		JAN 01 20:47 - JAN 01 22:54	PieRin
MSO	Mt. Stromlo Ob	-35.3	149.0					PnnRnn

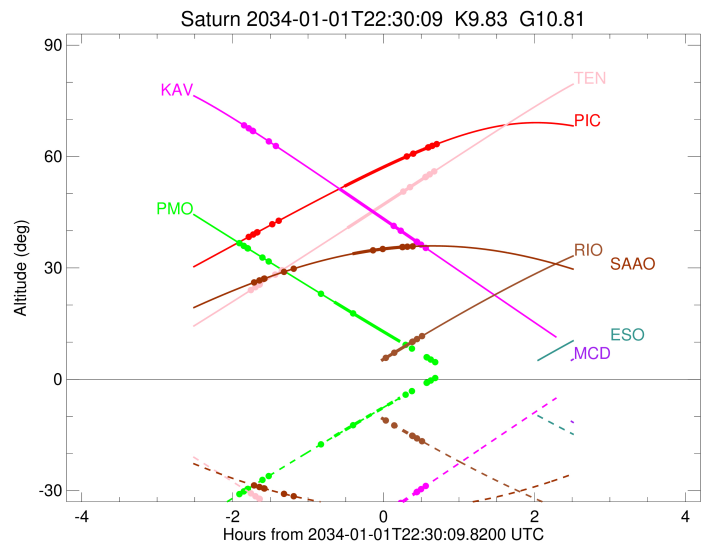
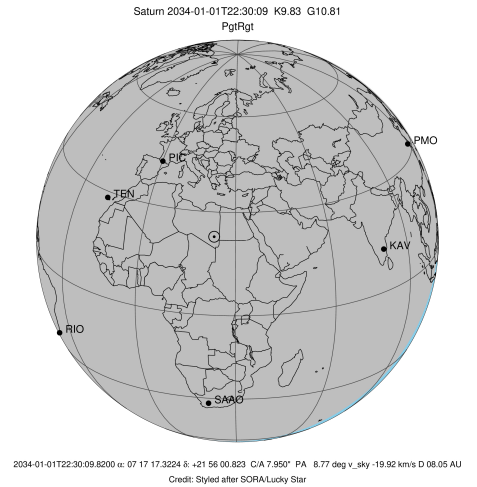


target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:32:23.370
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : Ring occs: geocentric, topocentric
 Observer code : PIC
 Location : Pic du Midi
 Latitude (deg) : 42.93656
 E. Longitude (deg) : 0.14231
 Altitude (km) : 2.890
 Gaia source ID : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011
 ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s
 RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 45.32
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64
 Pole direction: RA (deg): 40.60000
 Dec (deg): 83.50000
 C/A sky separation (") : 7.587
 C/A sky separation (km) : 44316.7
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 Saturn_ring_plane.tf
 sat378.bsp
 sat286.bsp
 vgr1.sat286.bsp
 vgr2.sat286.bsp
 HST1081HSPephemUTC.bsp
 pfb10000r.bsp
 cassini.bsp
 earthstns_itrf93_040916.bsp
 earth_200101_990628_predict.bpc
 earth_720101_070426.bpc
 cpck28Mar2008.tpc
 pck.sat440.tpc
 IAU_SATURN_for_RINGFIT.tpc
 naif0012.tls
 earth_flat_IAU.spk



Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
F ring	I	2034-01-01T20:43:00.657		38.35	-44.34	140461.00	-17.54		
A (OER)	I	2034-01-01T20:46:33.064		39.00	-44.98	136774.40	-17.17		
Encke (OEG)	I	2034-01-01T20:49:31.304		39.54	-45.52	133744.89	-16.82		
Encke (IEG)	I	2034-01-01T20:49:50.439		39.60	-45.58	133423.31	-16.79		
A (IER)	I	2034-01-01T21:01:40.793		41.76	-47.70	122050.38	-15.16		
B (OER)	I	2034-01-01T21:06:44.487		42.68	-48.60	117571.16	-14.32		
Saturn	I	2034-01-01T21:59:00.724		51.97	-57.56	59994.94		-29.07	-34.19
Saturn	E	2034-01-01T23:05:07.657		62.37	-66.81	59505.70		-54.77	-59.78
B (OER)	E	2034-01-01T22:48:42.321	b	60.02	-64.87	117571.16	14.31		
A (IER)	E	2034-01-01T22:53:46.181	b	60.77	-65.50	122050.38	15.15		
Encke (IEG)	E	2034-01-01T23:05:36.531		62.44	-66.86	133423.31	16.79		
Encke (OEG)	E	2034-01-01T23:05:55.657		62.48	-66.89	133744.89	16.83		
A (OER)	E	2034-01-01T23:08:53.790		62.88	-67.20	136774.40	17.18		
F ring	E	2034-01-01T23:12:26.014		63.34	-67.55	140461.00	17.56		

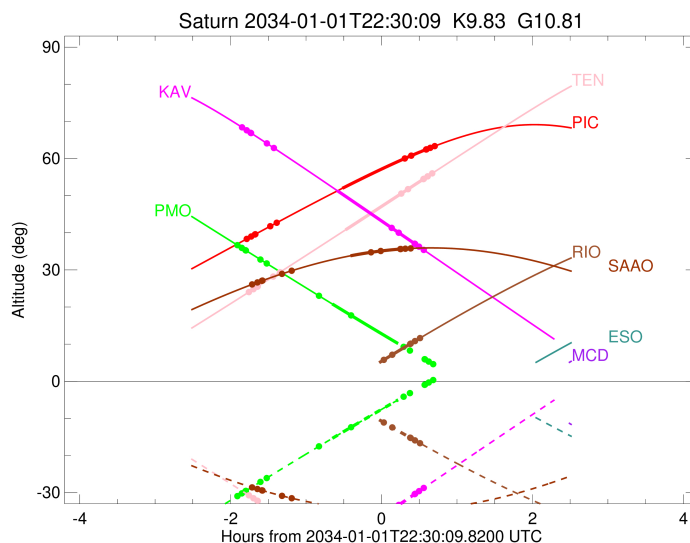
target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:26:21.340
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : Ring occs: geocentric, topocentric
 Observer code : PMO
 Location : Purple Mtn Obs. Nanking
 Latitude (deg) : 32.06667
 E. Longitude (deg) : 118.82089
 Altitude (km) : 0.364
 Gaia source ID : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011
 ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s
 RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 45.73
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64
 Pole direction: RA (deg): 40.60000
 Dec (deg): 83.50000
 C/A sky separation (") : 7.292
 C/A sky separation (km) : 42594.6
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 Saturn_ring_plane.tf
 sat378.bsp
 sat286.bsp
 vgr1.sat286.bsp
 vgr2.sat286.bsp
 HST1081HSPephemUTC.bsp
 pfb10000r.bsp
 cassini.bsp
 earthstns_itrf93_040916.bsp
 earth_200101_990628_predict.bpc
 earth_720101_070426.bpc
 cpck28Mar2008.tpc
 pck.sat440.tpc
 IAU_SATURN_for_RINGFIT.tpc
 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
F ring	I	2034-01-01T20:35:34.446		36.67	-30.94	140461.00	-17.77		
A (OER)	I	2034-01-01T20:39:03.966		35.93	-30.21	136774.40	-17.42		
Encke (OEG)	I	2034-01-01T20:41:59.449		35.31	-29.60	133744.89	-17.11		
Encke (IEG)	I	2034-01-01T20:42:18.267		35.25	-29.53	133423.31	-17.07		
A (IER)	I	2034-01-01T20:53:53.277		32.79	-27.12	122050.38	-15.59		
B (OER)	I	2034-01-01T20:58:47.515		31.76	-26.10	117571.16	-14.84		
B (IER)	I	2034-01-01T21:40:14.898		23.07	-17.57	91984.69	-4.48		
Saturn	I	2034-01-01T21:51:00.893		20.83	-15.39	60023.12		-27.39	-32.35
Saturn	E	2034-01-01T23:01:13.610		6.59	-1.57x	59544.80		-52.68	-57.85
B (IER)	E	2034-01-01T22:06:02.300	b	17.73	-12.37	91984.69	4.48		
B (OER)	E	2034-01-01T22:47:45.216	b	9.27	-4.16x	117571.16	14.69		
A (IER)	E	2034-01-01T22:52:42.493	b	8.28	-3.20x	122050.38	15.43		
Encke (IEG)	E	2034-01-01T23:04:25.166		5.96	-0.97x	133423.31	16.88		
Encke (OEG)	E	2034-01-01T23:04:44.202		5.90	-0.91x	133744.89	16.91		
A (OER)	E	2034-01-01T23:07:41.729		5.31	-0.35x	136774.40	17.22		
F ring	E	2034-01-01T23:11:13.748		4.62x	0.32x	140461.00	17.56		

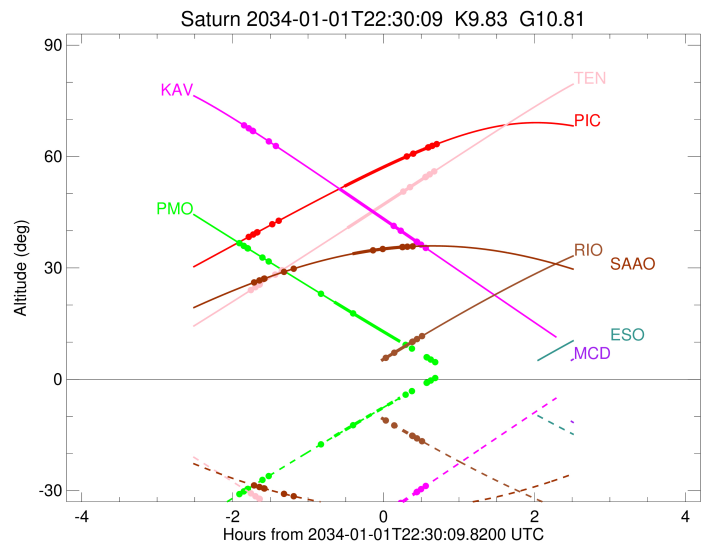
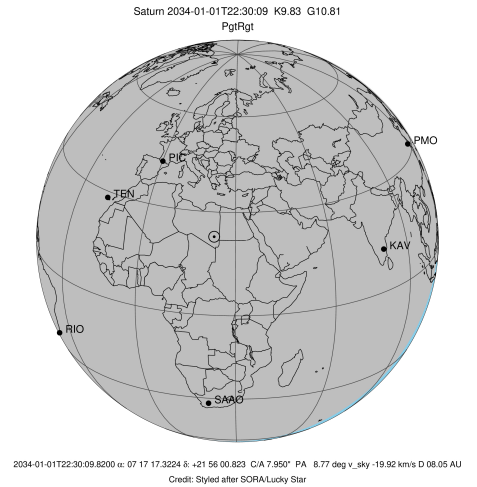
target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:33:34.490
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : Ring occs: geocentric, topocentric
 Observer code : TEN
 Location : Teide Obs./Tenerife
 Latitude (deg) : 28.30050
 E. Longitude (deg) : 343.48909
 Altitude (km) : 2.395
 Gaia source ID : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011
 ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s
 RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 45.06
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64
 Pole direction: RA (deg): 40.60000
 Dec (deg): 83.50000
 C/A sky separation (") : 7.829
 C/A sky separation (km) : 45732.6
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 Saturn_ring_plane.tf
 sat378.bsp
 sat286.bsp
 vgr1.sat286.bsp
 vgr2.sat286.bsp
 HST1081HSPephemUTC.bsp
 pfb10000r.bsp
 cassini.bsp
 earthstns_itrf93_040916.bsp
 earth_200101_990628_predict.bpc
 earth_720101_070426.bpc
 cpck28Mar2008.tpc
 pck.sat440.tpc
 IAU_SATURN_for_RINGFIT.tpc
 naif0012.tls
 earth_flat_IAU.spk



b: ring blocked by planet x: target alt < 5.0 deg or sun > -5.0 deg

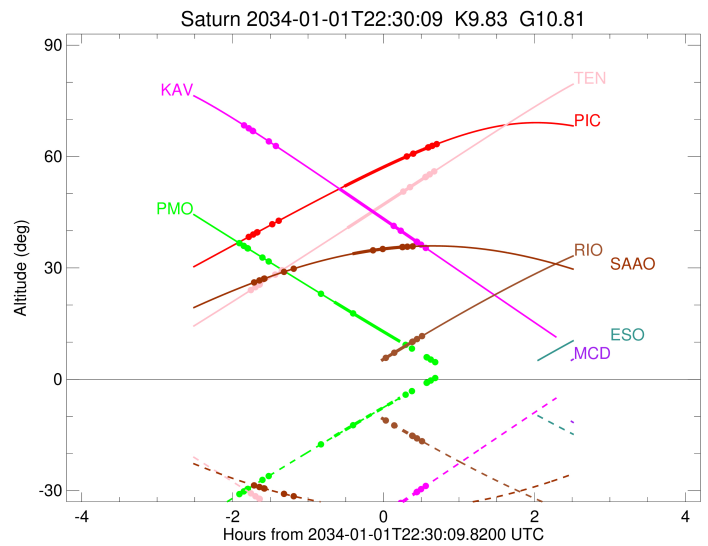
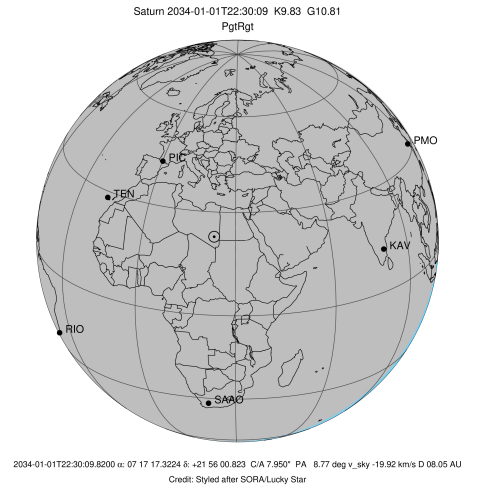
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
F ring	I	2034-01-01T20:44:42.914		24.02	-30.72	140461.00	-17.11		
A (OER)	I	2034-01-01T20:48:20.887		24.81	-31.51	136774.40	-16.71		
Encke (OEG)	I	2034-01-01T20:51:24.237		25.47	-32.17	133744.89	-16.34		
Encke (IEG)	I	2034-01-01T20:51:43.947		25.54	-32.24	133423.31	-16.29		
A (IER)	I	2034-01-01T21:04:00.342		28.19	-34.90	122050.38	-14.51		
B (OER)	I	2034-01-01T21:09:19.014		29.35	-36.06	117571.17	-13.58		
Saturn	I	2034-01-01T22:01:32.390		40.78	-47.49	59965.30		-30.78	-36.04
Saturn	E	2034-01-01T23:04:55.345		54.77	-61.44	59477.32		-56.33	-61.20
B (OER)	E	2034-01-01T22:45:54.829	b	50.57	-57.26	117571.16	13.60		
A (IER)	E	2034-01-01T22:51:12.910	b	51.74	-58.43	122050.38	14.54		
Encke (IEG)	E	2034-01-01T23:03:27.343	b	54.45	-61.12	133423.31	16.35		
Encke (OEG)	E	2034-01-01T23:03:46.987	b	54.52	-61.19	133744.89	16.39		
A (OER)	E	2034-01-01T23:06:49.685		55.20	-61.86	136774.40	16.77		
F ring	E	2034-01-01T23:10:26.796		55.99	-62.66	140461.00	17.19		

target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:26:40.010
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : Ring occs: geocentric, topocentric
 Observer code : KAV
 Location : Kavalur Observatory
 Latitude (deg) : 12.57556
 E. Longitude (deg) : 78.83167
 Altitude (km) : 0.722
 Gaia source ID : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011
 ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s
 RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 45.99
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64
 Pole direction: RA (deg): 40.60000
 Dec (deg): 83.50000
 C/A sky separation (") : 7.876
 C/A sky separation (km) : 46002.3
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 Saturn_ring_plane.tf
 sat378.bsp
 sat286.bsp
 vgr1.sat286.bsp
 vgr2.sat286.bsp
 HST1081HSPephemUTC.bsp
 pfb10000r.bsp
 cassini.bsp
 earthstns_itrf93_040916.bsp
 earth_200101_990628_predict.bpc
 earth_720101_070426.bpc
 cpck28Mar2008.tpc
 pck.sat440.tpc
 IAU_SATURN_for_RINGFIT.tpc
 naif0012.tls
 earth_flat_IAU.spk



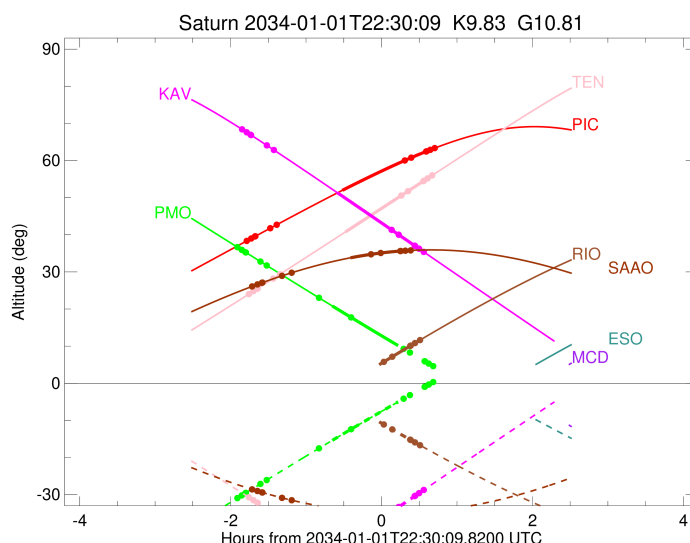
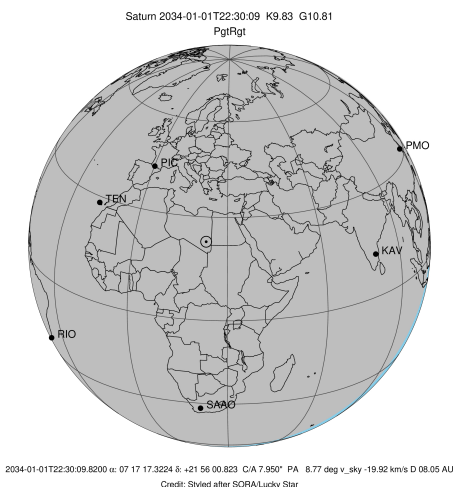
Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
F ring	I	2034-01-01T20:39:16.770		68.41	-61.67	140461.00	-16.88		
A (OER)	I	2034-01-01T20:42:57.968		67.61	-60.86	136774.40	-16.44		
Encke (OEG)	I	2034-01-01T20:46:04.413		66.94	-60.17	133744.89	-16.05		
Encke (IEG)	I	2034-01-01T20:46:24.479		66.87	-60.10	133423.31	-16.00		
A (IER)	I	2034-01-01T20:58:58.127		64.10	-57.29	122050.38	-14.09		
B (OER)	I	2034-01-01T21:04:27.478		62.87	-56.06	117571.16	-13.09		
Saturn	I	2034-01-01T21:54:58.651		51.35	-44.56	59948.09		-31.75	-37.07
Saturn	E	2034-01-01T22:57:49.237		36.77	-30.11	59480.31		-56.16	-61.05
B (OER)	E	2034-01-01T22:38:16.530	b	41.31	-34.61	117571.16	12.97		
A (IER)	E	2034-01-01T22:43:49.033	b	40.02	-33.33	122050.38	13.95		
Encke (IEG)	E	2034-01-01T22:56:30.780	b	37.07	-30.41	133423.31	15.82		
Encke (OEG)	E	2034-01-01T22:56:51.075	b	36.99	-30.33	133744.89	15.87		
A (OER)	E	2034-01-01T22:59:59.686		36.26	-29.61	136774.40	16.25		
F ring	E	2034-01-01T23:03:43.525		35.39	-28.75	140461.00	16.68		

target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:34:09.040
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : 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 : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011
 ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s
 RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 44.45
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64
 Pole direction: RA (deg): 40.60000
 Dec (deg): 83.50000
 C/A sky separation (") : 8.594
 C/A sky separation (km) : 50199.6
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 Saturn_ring_plane.tf
 sat378.bsp
 sat286.bsp
 vgr1.sat286.bsp
 vgr2.sat286.bsp
 HST1081HSPephemUTC.bsp
 pfb10000r.bsp
 cassini.bsp
 earthstns_itrf93_040916.bsp
 earth_200101_990628_predict.bpc
 earth_720101_070426.bpc
 cpck28Mar2008.tpc
 pck.sat440.tpc
 IAU_SATURN_for_RINGFIT.tpc
 naif0012.tls
 earth_flat_IAU.spk



Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
F ring	I	2034-01-01T20:47:30.018	-16.67x	10.63x	140461.00	-15.47			
A (OER)	I	2034-01-01T20:51:32.432	-15.77x	9.76x	136774.40	-14.94			
Encke (OEG)	I	2034-01-01T20:54:58.627	-15.02x	9.02x	133744.89	-14.44			
Encke (IEG)	I	2034-01-01T20:55:20.934	-14.94x	8.94x	133423.31	-14.39			
A (IER)	I	2034-01-01T21:09:41.875	-11.79x	5.87x	122050.38	-11.92			
B (OER)	I	2034-01-01T21:16:20.299	-10.34x	4.46x	117571.16	-10.54			
Saturn	I	2034-01-01T22:07:01.947	0.55x	-6.09	59850.92	-36.98		-42.55	
Saturn	E	2034-01-01T23:00:30.418	11.57	-16.64	59396.58	-60.99		-65.39	
B (OER)	E	2034-01-01T22:32:04.842	b	5.78	-11.12	117571.16	10.58		
A (IER)	E	2034-01-01T22:38:41.485	b	7.14	-12.42	122050.38	11.98		
Encke (IEG)	E	2034-01-01T22:52:57.795	b	10.05	-15.20	133423.31	14.48		
Encke (OEG)	E	2034-01-01T22:53:19.964	b	10.13	-15.27	133744.89	14.53		
A (OER)	E	2034-01-01T22:56:44.820	b	10.82	-15.92	136774.40	15.04		
F ring	E	2034-01-01T23:00:45.526	b	11.62	-16.69	140461.00	15.59		

target : Saturn
 target radius (km) : 60268.00
 C/A epoch : 2034-01-01T22:30:19.700
 Event type : PgtRgt
 : Saturn occs: geocentric, topocentric
 : Ring occs: geocentric, topocentric
 Observer code : SAAO
 Location : So. Afr. Astro. Obs. (Sutherland)
 Latitude (deg) : -32.37953
 E. Longitude (deg) : 20.81070
 Altitude (km) : 1.768
 Gaia source ID : 3367187431590960896
 2Mass ID (if available) : 07171732+2156011
 ICRS Star Coord at Epoch: 07h 17m 17.32243s +21:56:00.82280s
 RUWE (>1.4 is poor) : 1.29
 K magnitude : 9.829
 G magnitude : 10.812
 RP magnitude : 10.450
 BP magnitude : 11.026
 DUPflag : 0
 Distance (au) : 8.054
 f0 (km) : 0.000
 g0 (km) : 0.000
 skyplane vel. (km/s) : -19.91
 Sun-Target sep (deg) : 173.23
 Sun-Moon sep (deg) : 45.33
 B (ring opening deg) : -24.16
 PA of pole (deg) : -6.64
 Pole direction: RA (deg): 40.60000
 Dec (deg): 83.50000
 C/A sky separation (") : 8.840
 C/A sky separation (km) : 51637.7
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk
 URKALLvl.spk
 Saturn_ring_plane.tf
 sat378.bsp
 sat286.bsp
 vgr1.sat286.bsp
 vgr2.sat286.bsp
 HST1081HSPephemUTC.bsp
 pfb10000r.bsp
 cassini.bsp
 earthstns_itrf93_040916.bsp
 earth_200101_990628_predict.bpc
 earth_720101_070426.bpc
 cpck28Mar2008.tpc
 pck.sat440.tpc
 IAU_SATURN_for_RINGFIT.tpc
 naif0012.tls
 earth_flat_IAU.spk



Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
F ring	I	2034-01-01T20:47:14.258		26.09	-28.58	140461.00	-14.89		
A (OER)	I	2034-01-01T20:51:27.021		26.62	-29.02	136774.40	-14.27		
Encke (OEG)	I	2034-01-01T20:55:03.585		27.07	-29.38	133744.89	-13.70		
Encke (IEG)	I	2034-01-01T20:55:27.113		27.11	-29.42	133423.31	-13.64		
A (IER)	I	2034-01-01T21:10:56.954		28.93	-30.86	122050.38	-10.69		
B (OER)	I	2034-01-01T21:18:31.949		29.75	-31.49	117571.16	-8.96		
Saturn	I	2034-01-01T22:05:32.975		33.80	-34.24	59798.49		-39.69	-45.31
Saturn	E	2034-01-01T22:54:24.447		35.81	-34.77	59377.86		-62.14	-66.41
B (OER)	E	2034-01-01T22:21:57.960	b	34.74	-34.69	117571.16	8.95		
A (IER)	E	2034-01-01T22:29:33.472	b	35.09	-34.81	122050.38	10.68		
Encke (IEG)	E	2034-01-01T22:45:05.142	b	35.61	-34.86	133423.31	13.60		
Encke (OEG)	E	2034-01-01T22:45:28.725	b	35.62	-34.86	133744.89	13.67		
A (OER)	E	2034-01-01T22:49:05.801	b	35.71	-34.83	136774.40	14.24		
F ring	E	2034-01-01T22:53:19.168	b	35.79	-34.79	140461.00	14.86		