

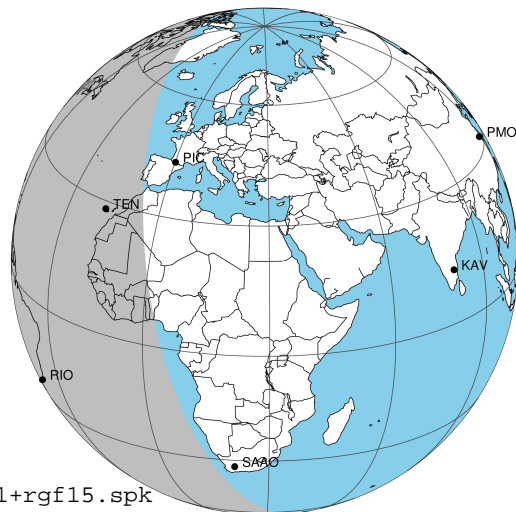
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2024-08-10T05:47:09.640
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3412179821059378048
 2Mass ID (if available) : 04575691+2158073

Jupiter 2024-08-10T05:47:09 K9.55 G12.28 Pgt

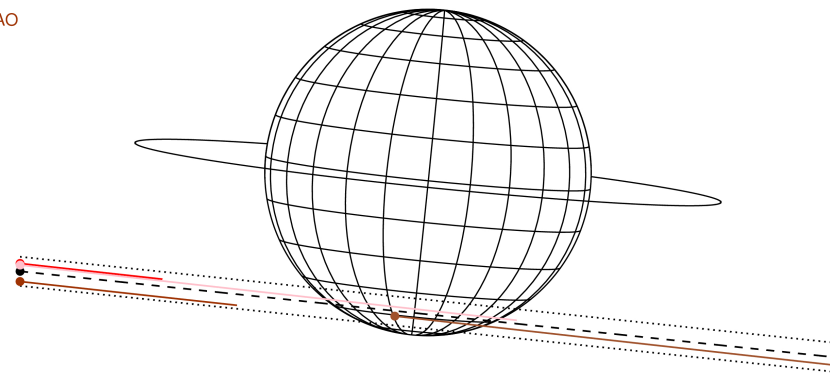
ICRS Star Coord at Epoch: 04h 57m 56.92424s +21:58:07.23524s

RUWE (>1.4 is poor) : 1.32
 K magnitude : 9.546
 G magnitude : 12.284
 RP magnitude : 11.455
 BP magnitude : 13.011
 DUPflag : 0
 Distance (au) : 5.432
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 26.65
 Sun-Target sep (deg) : 62.13
 Sun-Moon sep (deg) : 125.72
 B (ring opening deg) : 2.89
 PA of pole (deg) : -5.81
 Pole direction: RA (deg): 268.05790
 Dec (deg): 64.49674
 C/A sky separation (") : 15.689
 C/A sky separation (km) : 61806.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2024-08-10T05:47:09 K9.55 G12.28
 Pgt



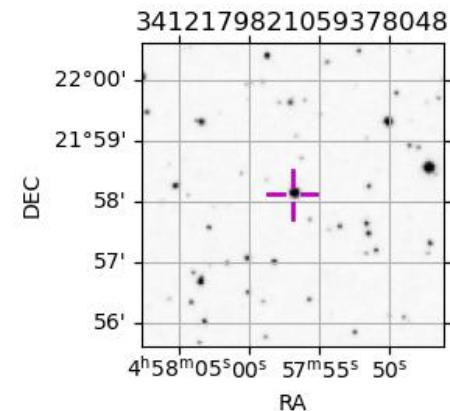
Earth
 PIC
 TEN
 RIO
 SAAO



2024-08-10T05:47:09.6400 α: 04 57 56.9242 δ: +21 58 07.235 C/A ***** PA 353.98 deg v_sky +26.65 km/s D 05.43 AU
 Credit: Styled after SORA/Lucky Star

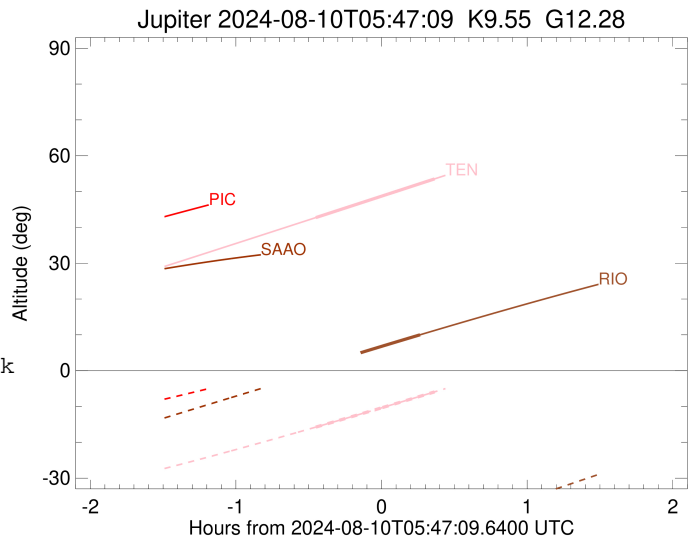
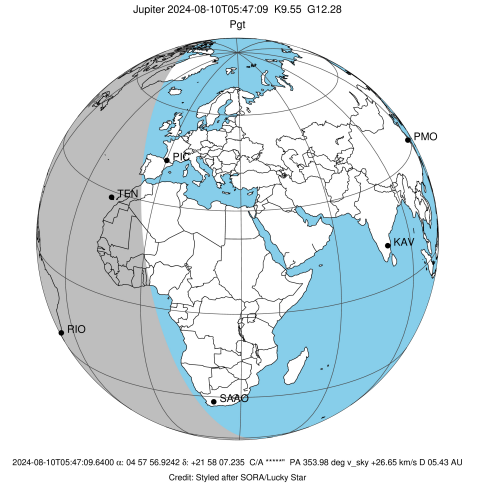
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OCode
PIC	Pic du Midi	42.9	0.1			Pnn
PAL	Palomar Mt (200")	33.4	243.1			Pnn
PMO	Purple Mtn Obs. Nanking	32.1	118.8			Pnn
KPNO	Kitt Peak Natl Obs	32.0	248.4			Pnn
MCD	McDonald Obs. 2.7m	30.7	256.0			Pnn
TEN	Teide Obs./Tenerife	28.3	343.5	+ +	AUG 10 05:20 - AUG 10 06:09	Pie
IRTF	Mauna Kea/IRTF	19.8	204.5			Pnn
KAV	Kavalur Observatory	12.6	78.8			Pnn
RIO	Rio de Janeiro	-22.9	316.8	+	AUG 10 06:03 - AUG 10 06:03	Pne
ESO	European Southern Obs. (3.6m)	-29.3	289.3			Pnn
AAT	Siding Spring (AAT)	-31.3	149.1			Pnn
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8			Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0			Pnn



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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2024-08-10T05:44:31.820
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : TEN
Location              : Teide Obs./Tenerife
Latitude (deg)       : 28.30050
E. Longitude (deg)   : 343.48909
Altitude (km)        : 2.395
Gaia source ID       : 3412179821059378048
2Mass ID (if available) : 04575691+2158073
ICRS Star Coord at Epoch: 04h 57m 56.92424s +21:58:07.23524s
RUWE (>1.4 is poor) : 1.32
K magnitude           : 9.546
G magnitude           : 12.284
RP magnitude         : 11.455
BP magnitude         : 13.011
DUPflag              : 0
Distance (au)        : 5.432
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 26.65
Sun-Target sep (deg) : 62.13
Sun-Moon sep (deg)   : 125.94
B (ring opening deg) : 2.89
PA of pole (deg)     : -5.81
Pole direction: RA (deg): 268.05790
Dec (deg): 64.49674
C/A sky separation (") : 15.249
C/A sky separation (km) : 60075.4
NAIF SPICE kernels   : RAJobs_U111+rgf15.spk
URKALLv1.spk
naif0012.tls
nep097.bsp
nep101.bsp
sat4401.bsp
de440.bsp
earth_720101_070426.bpc
jup365.bsp
urall6.bsp
IAU_SATURN_for_RINGFIT.tpc
pck00010.tpc
earth_200101_990628_predict.bpc
uranus_ringframes_rfrench20220627_v1.tf
neptune_ringframes_rfrench20220702a_v1.tf
earth_flat_IAU.spk
    
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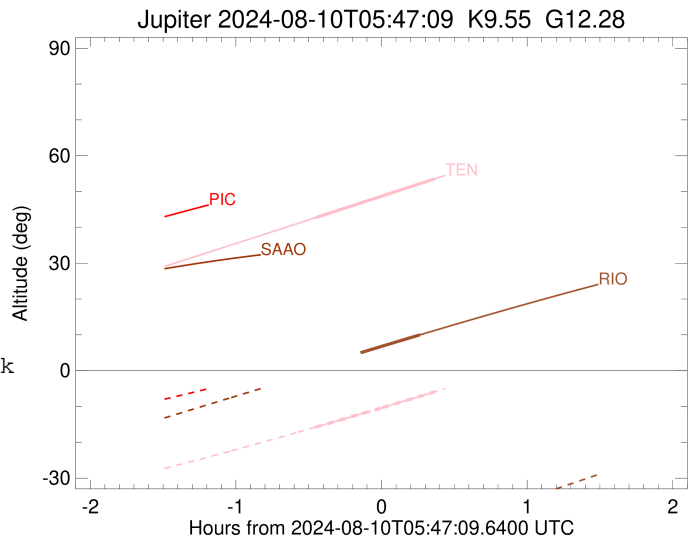
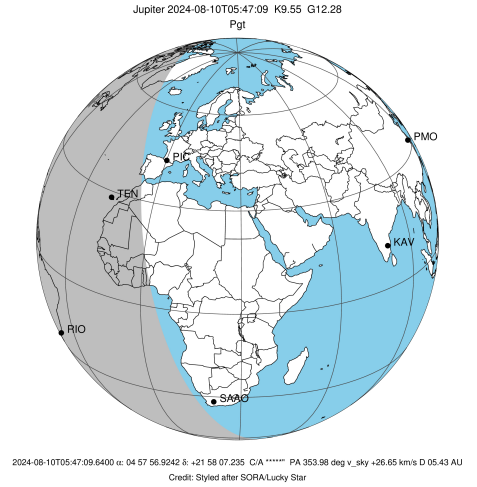


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2024-08-10T05:20:03.953	42.72	-15.76	71484.0	-56.54	-59.83
Jupiter	E	2024-08-10T06:09:01.955	53.53	-5.92	71483.9	-57.58	-60.80

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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2024-08-10T05:43:13.440
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : RIO
Location             : Rio de Janeiro
Latitude (deg)       : -22.89506
E. Longitude (deg)   : 316.77708
Altitude (km)        : 0.033
Gaia source ID       : 3412179821059378048
2Mass ID (if available) : 04575691+2158073
ICRS Star Coord at Epoch: 04h 57m 56.92424s +21:58:07.23524s
RUWE (>1.4 is poor) : 1.32
K magnitude          : 9.546
G magnitude          : 12.284
RP magnitude         : 11.455
BP magnitude         : 13.011
DUPflag             : 0
Distance (au)        : 5.432
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 26.65
Sun-Target sep (deg) : 62.13
Sun-Moon sep (deg)   : 125.33
B (ring opening deg) : 2.89
PA of pole (deg)     : -5.81
Pole direction: RA (deg): 268.05790
Dec (deg): 64.49674
C/A sky separation (") : 16.282
C/A sky separation (km) : 64143.5
NAIF SPICE kernels   : RAJobs_U111+rgf15.spk
URKALLv1.spk
naif0012.tls
nep097.bsp
nep101.bsp
sat4401.bsp
de440.bsp
earth_720101_070426.bpc
jup365.bsp
urall6.bsp
IAU_SATURN_for_RINGFIT.tpc
pck00010.tpc
earth_200101_990628_predict.bpc
uranus_ringframes_rfrench20220627_v1.tf
neptune_ringframes_rfrench20220702a_v1.tf
earth_flat_IAU.spk
    
```



x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2024-08-10T05:23:25.715	1.85x	-55.02	71482.9	-63.09	-65.92
Jupiter	E	2024-08-10T06:03:03.061	10.01	-45.90	71482.7	-64.23	-66.97