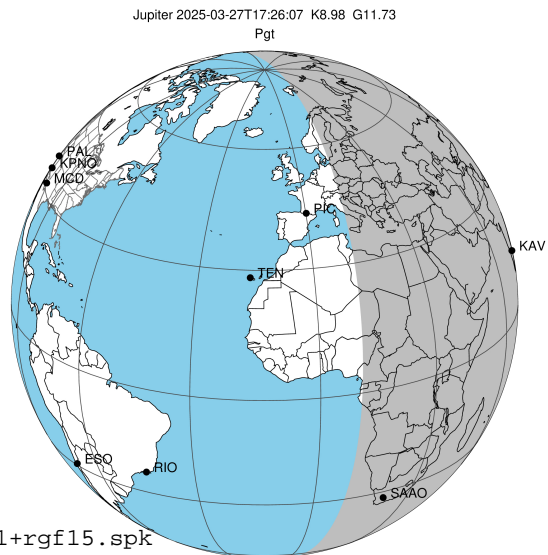


target : Jupiter  
 target radius (km) : 71492.00  
 C/A epoch : 2025-03-27T17:26:07.000  
 Event type : Pgt  
 : Jupiter occs: geocentric, topocentric  
 : Not a ringed target  
 Gaia source ID : 3412446491286706176  
 2Mass ID (if available) : 04545765+2216413

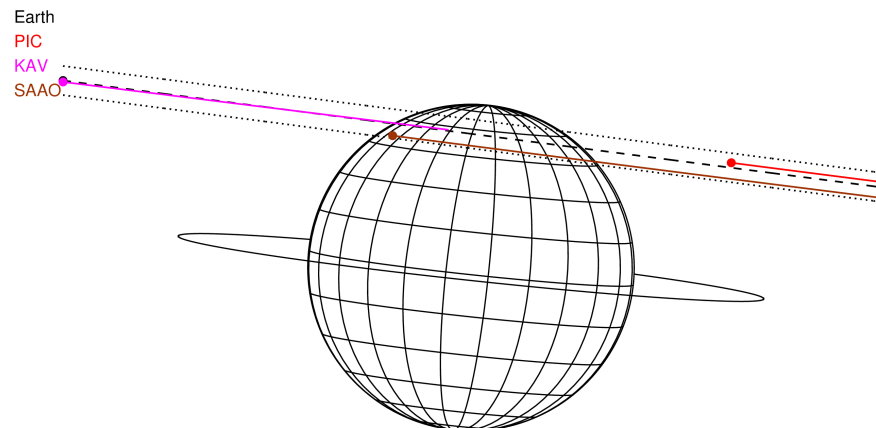
Jupiter 2025-03-27T17:26:07 K8.98 G11.73 Pgt

ICRS Star Coord at Epoch: 04h 54m 57.65711s +22:16:41.27256s

RUWE (>1.4 is poor) : 1.58  
 K magnitude : 8.981  
 G magnitude : 11.735  
 RP magnitude : 10.894  
 BP magnitude : 12.475  
 DUPflag : 0  
 Distance (au) : 5.400  
 f0 (km) : 0.00  
 g0 (km) : 0.00  
 skyplane vel. (km/s) : 23.87  
 Sun-Target sep (deg) : 68.04  
 Sun-Moon sep (deg) : 92.11  
 B (ring opening deg) : 2.52  
 PA of pole (deg) : -6.12  
 Pole direction: RA (deg): 268.05780  
 Dec (deg): 64.49671  
 C/A sky separation (") : 14.827  
 C/A sky separation (km) : 58072.3  
 NAIF SPICE kernels : RAJobs\_U111+rgf15.spk

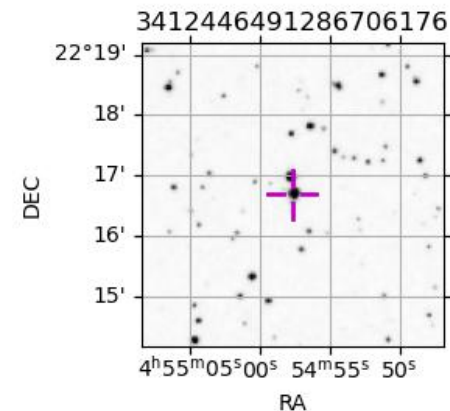


2025-03-27T17:26:07.0000 α: 04 54 57.65711 δ: +22 16 41.273 C/A \*\*\*\*\* PA 172.57 deg v\_sky +23.87 km/s D 05.40 AU  
 Credit: Styled after SORA/Lucky Star



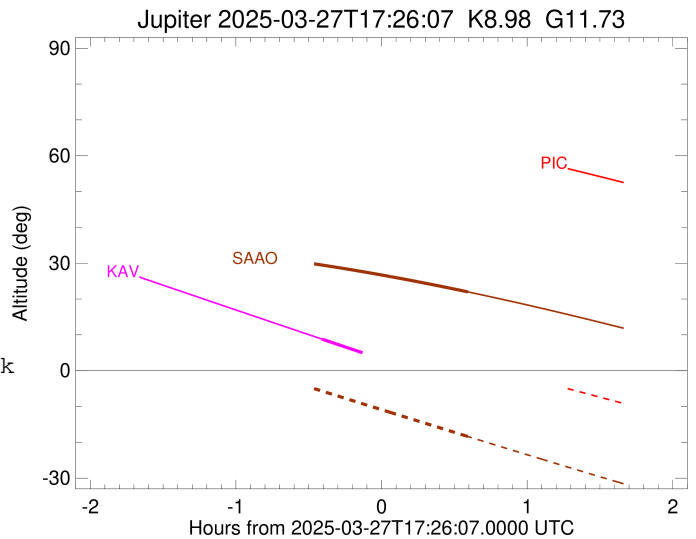
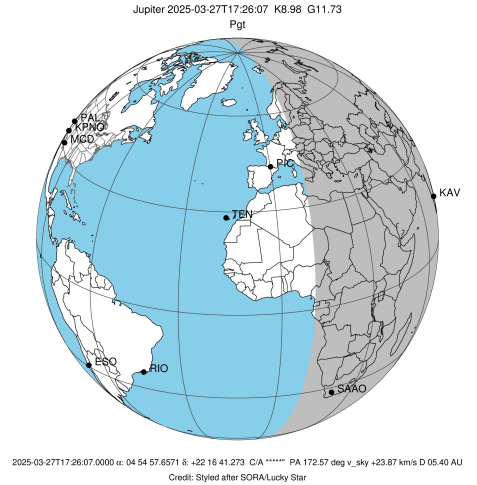
Observable events with sun below -5 deg and altitude above 5 deg

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			Pnn
IRTF	Mauna Kea/IRTF	19.8	204.5			Pnn
KAV	Kavalur Observatory	12.6	78.8	+	MAR 27 17:01 - MAR 27 17:01	Pin
RIO	Rio de Janeiro	-22.9	316.8			Pnn
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	+	MAR 27 18:01 - MAR 27 18:01	Pne
MSO	Mt. Stromlo Observatory	-35.3	149.0			Pnn



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2025-03-27T17:30:14.960
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : KAV
Location            : Kavalur Observatory
Latitude (deg)      : 12.57556
E. Longitude (deg)  : 78.83167
Altitude (km)       : 0.722
Gaia source ID      : 3412446491286706176
2Mass ID (if available) : 04545765+2216413
ICRS Star Coord at Epoch: 04h 54m 57.65711s +22:16:41.27256s
RUWE (>1.4 is poor) : 1.58
K magnitude          : 8.981
G magnitude          : 11.735
RP magnitude         : 10.894
BP magnitude         : 12.475
DUPflag             : 0
Distance (au)       : 5.400
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 23.87
Sun-Target sep (deg) : 68.04
Sun-Moon sep (deg)  : 92.13
B (ring opening deg) : 2.52
PA of pole (deg)    : -6.12
Pole direction: RA (deg): 268.05780
Dec (deg): 64.49671
C/A sky separation (") : 14.977
C/A sky separation (km) : 58660.5
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
    
```

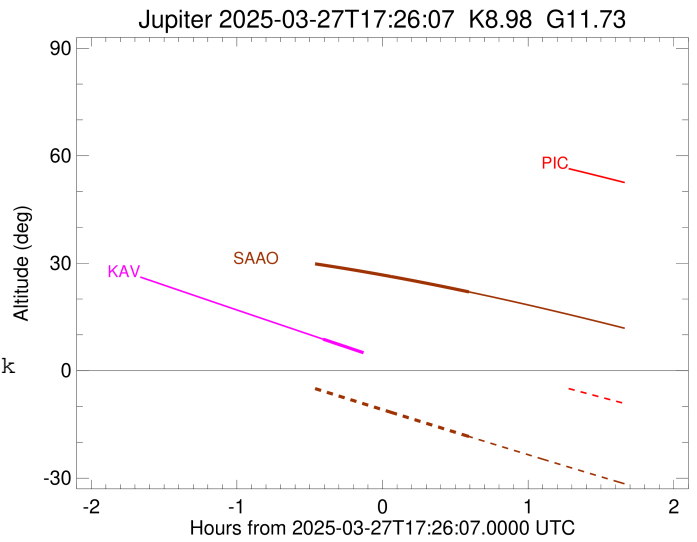
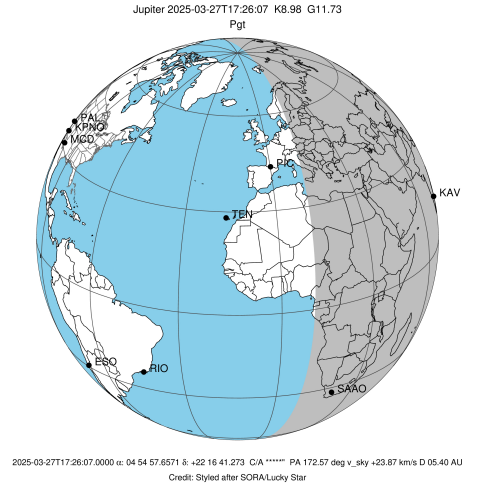


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2025-03-27T17:01:41.543	8.78	-59.04	71486.0	55.97	59.28
Jupiter	E	2025-03-27T17:58:43.789	-4.11x	-70.04	71486.3	54.18	57.59

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2025-03-27T17:27:42.740
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
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        : 3412446491286706176
2Mass ID (if available) : 04545765+2216413
ICRS Star Coord at Epoch: 04h 54m 57.65711s +22:16:41.27256s
RUWE (>1.4 is poor) : 1.58
K magnitude           : 8.981
G magnitude           : 11.735
RP magnitude          : 10.894
BP magnitude          : 12.475
DUPflag              : 0
Distance (au)         : 5.400
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 23.87
Sun-Target sep (deg)  : 68.04
Sun-Moon sep (deg)   : 92.54
B (ring opening deg) : 2.52
PA of pole (deg)     : -6.12
Pole direction: RA (deg): 268.05780
Dec (deg): 64.49671
C/A sky separation (") : 13.504
C/A sky separation (km) : 52888.7
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	2025-03-27T16:53:38.835	30.28	-4.01x	71487.1	48.89	52.52
Jupiter	E	2025-03-27T18:01:43.129	21.99	-18.37	71487.4	46.47	50.15