

target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2026-04-09T09:51:23.060
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3368276051182784384
 2Mass ID (if available) : 07095233+2250263

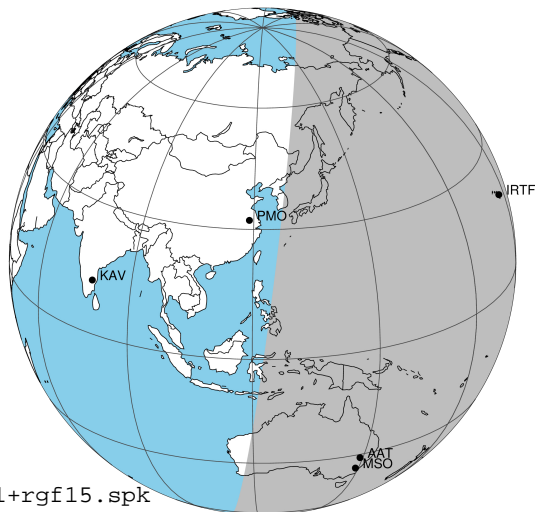
Jupiter 2026-04-09T09:51:23 K9.45 G11.60 Pgt

ICRS Star Coord at Epoch: 07h 09m 52.33585s +22:50:26.26447s

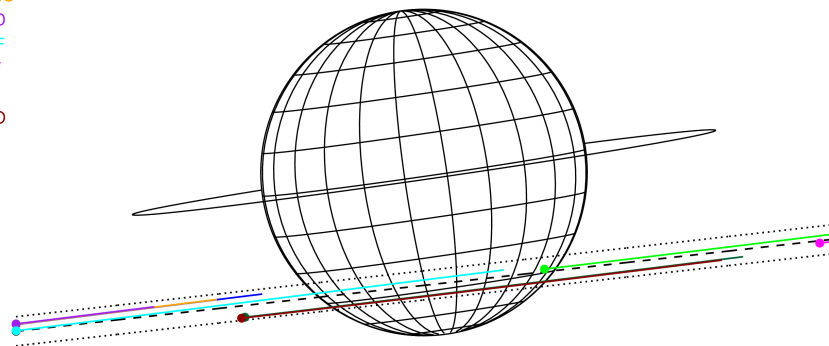
RUWE (>1.4 is poor) : 0.75
 K magnitude : 9.448
 G magnitude : 11.601
 RP magnitude : 10.923
 BP magnitude : 12.125
 DUPflag : 0
 Distance (au) : 5.206
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 13.94
 Sun-Target sep (deg) : 86.87
 Sun-Moon sep (deg) : 173.13
 B (ring opening deg) : 1.37
 PA of pole (deg) : 8.23
 Pole direction: RA (deg): 268.05768
 Dec (deg): 64.49668
 C/A sky separation (") : 13.011
 C/A sky separation (km) : 49124.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2026-04-09T09:51:23 K9.45 G11.60

Pgt



Earth
 PAL
 PMO
 KPNO
 MCD
 IRTF
 KAV
 AAT
 MSO

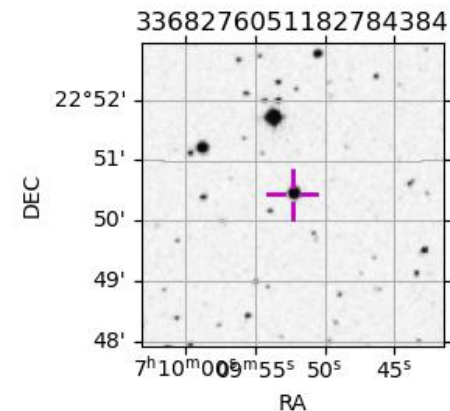


2026-04-09T09:51:23.0600 a: 07 09 52.33585 s: +22 50 26.264 C/A ***** PA 6.42 deg v_sky +13.94 km/s D 05.21 AU

Credit: Styled after SORA/Lucky Star

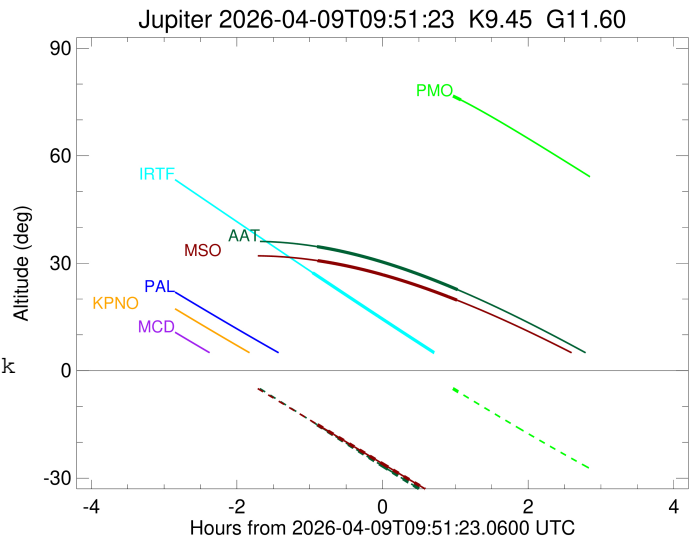
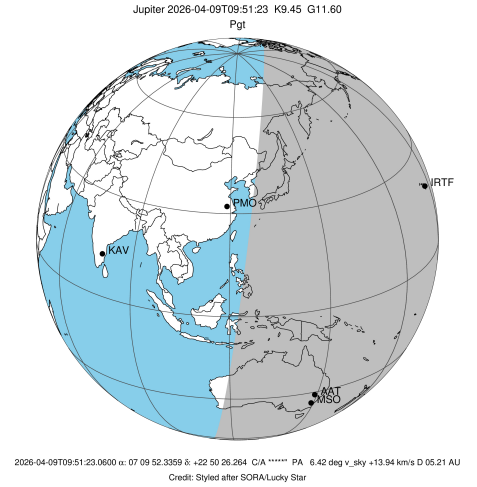
Observable events with sun below -5 deg and altitude above 5 deg

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	+	APR 09 10:56 - APR 09 10:56	Pne
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	+	APR 09 08:53 - APR 09 08:53	Pin
KAV	Kavalur Observatory	12.6	78.8			Pnn
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	+	APR 09 08:57 - APR 09 10:53	Pie
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8			Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0	+	APR 09 08:57 - APR 09 10:52	Pie



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2026-04-09T09:50:59.320
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : PMO
Location              : Purple Mtn Obs. Nanking
Latitude (deg)        : 32.06667
E. Longitude (deg)    : 118.82089
Altitude (km)         : 0.364
Gaia source ID        : 3368276051182784384
2Mass ID (if available) : 07095233+2250263
ICRS Star Coord at Epoch: 07h 09m 52.33585s +22:50:26.26447s
RUWE (>1.4 is poor) : 0.75
K magnitude           : 9.448
G magnitude           : 11.601
RP magnitude          : 10.923
BP magnitude          : 12.125
DUPflag              : 0
Distance (au)         : 5.206
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 13.94
Sun-Target sep (deg)  : 86.87
Sun-Moon sep (deg)   : 173.11
B (ring opening deg) : 1.37
PA of pole (deg)     : 8.23
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation (") : 12.755
C/A sky separation (km) : 48158.7
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
    
```

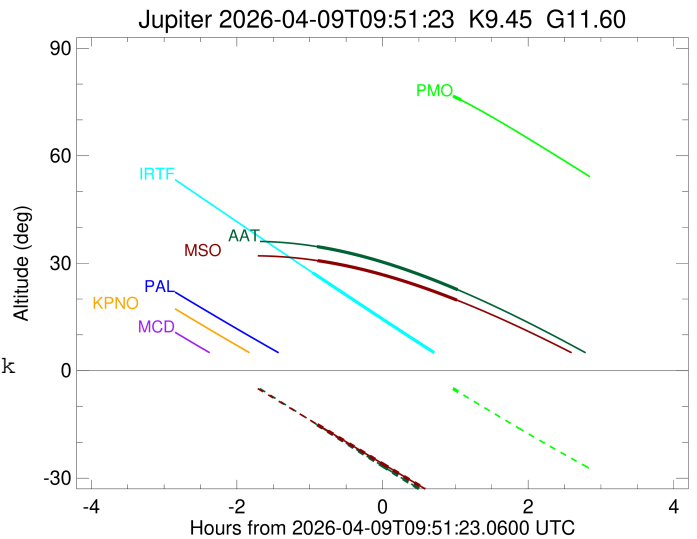
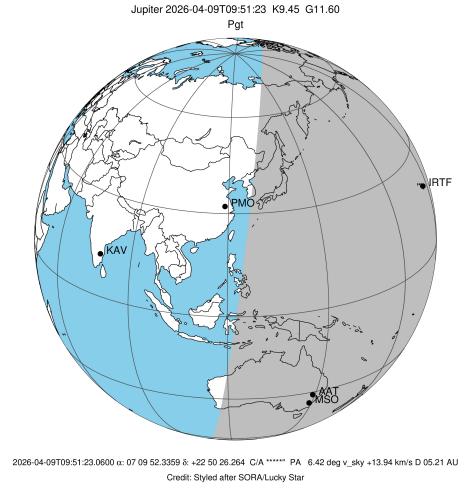


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-09T08:45:50.760	70.12	21.08x	71490.9	-40.58	-44.30
Jupiter	E	2026-04-09T10:56:01.513	75.56	-6.36	71490.8	-43.90	-47.61

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-09T09:58:56.200
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : IRTF
Location             : Mauna Kea/IRTF
Latitude (deg)       : 19.82622
E. Longitude (deg)  : 204.52800
Altitude (km)        : 4.168
Gaia source ID       : 3368276051182784384
2Mass ID (if available) : 07095233+2250263
ICRS Star Coord at Epoch: 07h 09m 52.33585s +22:50:26.26447s
RUWE (>1.4 is poor) : 0.75
K magnitude           : 9.448
G magnitude           : 11.601
RP magnitude          : 10.923
BP magnitude          : 12.125
DUPflag              : 0
Distance (au)         : 5.206
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 13.94
Sun-Target sep (deg) : 86.87
Sun-Moon sep (deg)   : 173.57
B (ring opening deg) : 1.37
PA of pole (deg)     : 8.23
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation (" ) : 12.372
C/A sky separation (km) : 46712.6
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
    
```

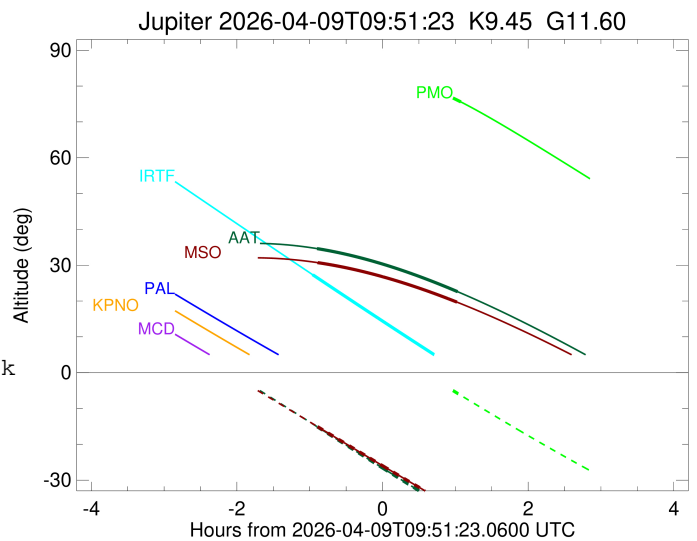
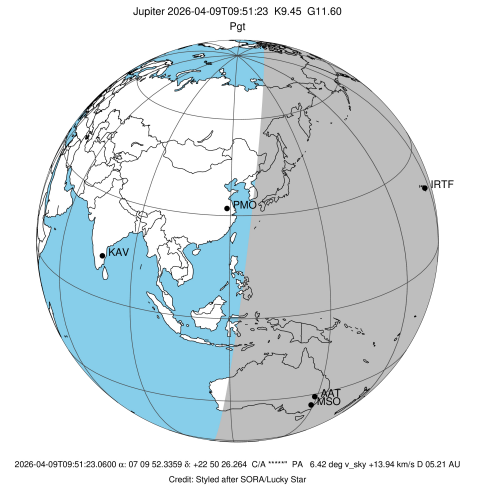


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-09T08:53:47.022	27.36	-54.86	71491.0	-39.71	-43.41
Jupiter	E	2026-04-09T11:03:23.665	-1.33x	-60.91	71490.9	-41.91	-45.63

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-09T09:55:36.260
Event type          : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code       : AAT
Location            : Siding Spring (AAT)
Latitude (deg)      : -31.27703
E. Longitude (deg)  : 149.06608
Altitude (km)       : 1.164
Gaia source ID      : 3368276051182784384
2Mass ID (if available) : 07095233+2250263
ICRS Star Coord at Epoch: 07h 09m 52.33585s +22:50:26.26447s
RUWE (>1.4 is poor) : 0.75
K magnitude          : 9.448
G magnitude          : 11.601
RP magnitude         : 10.923
BP magnitude         : 12.125
DUPflag             : 0
Distance (au)        : 5.206
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 13.94
Sun-Target sep (deg) : 86.87
Sun-Moon sep (deg)   : 173.90
B (ring opening deg) : 1.37
PA of pole (deg)     : 8.23
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation ("): 14.225
C/A sky separation (km): 53709.1
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
    
```

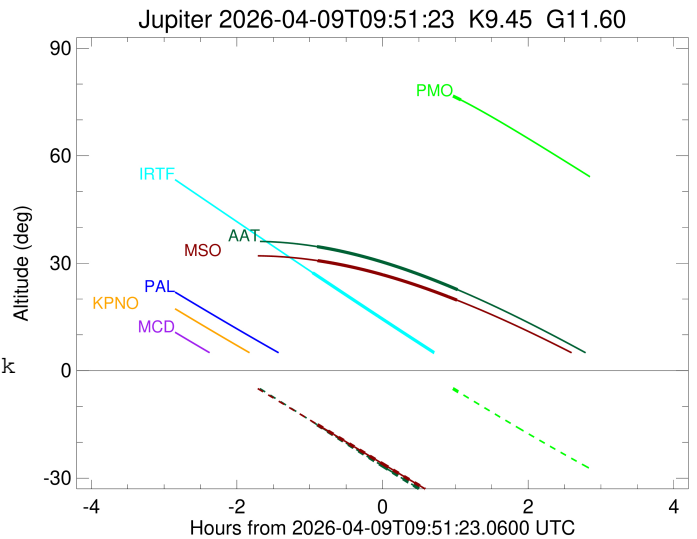
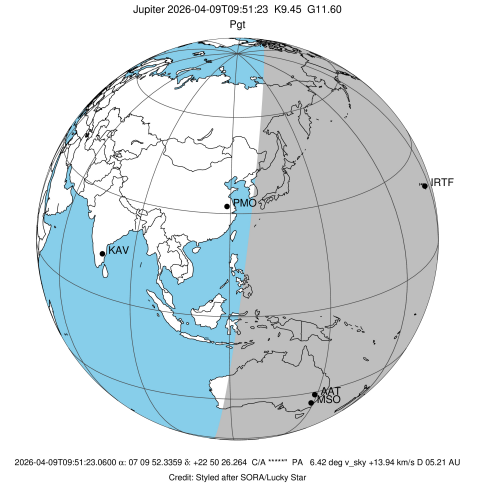


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-09T08:57:33.326	34.62	-15.10	71490.6	-47.28	-50.95
Jupiter	E	2026-04-09T10:53:20.275	22.59	-39.56	71490.5	-49.96	-53.55

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2026-04-09T09:55:28.350
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : MSO
Location              : Mt. Stromlo Observatory
Latitude (deg)       : -35.32000
E. Longitude (deg)   : 149.00833
Altitude (km)        : 0.770
Gaia source ID       : 3368276051182784384
2Mass ID (if available) : 07095233+2250263
ICRS Star Coord at Epoch: 07h 09m 52.33585s +22:50:26.26447s
RUWE (>1.4 is poor) : 0.75
K magnitude           : 9.448
G magnitude           : 11.601
RP magnitude          : 10.923
BP magnitude          : 12.125
DUPflag              : 0
Distance (au)        : 5.206
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 13.94
Sun-Target sep (deg) : 86.87
Sun-Moon sep (deg)   : 173.90
B (ring opening deg) : 1.37
PA of pole (deg)     : 8.23
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation ("): 14.298
C/A sky separation (km): 53983.4
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
    
```



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	2026-04-09T08:57:52.948	30.71	-15.07	71490.6	-47.60	-51.25
Jupiter	E	2026-04-09T10:52:45.792	19.69	-38.10	71490.5	-50.32	-53.89