

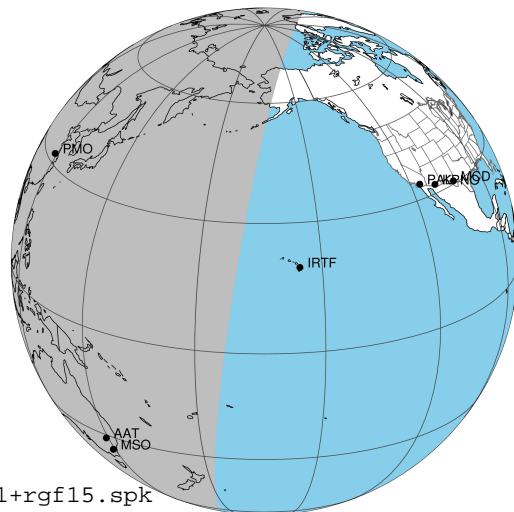
target : Jupiter  
 target radius (km) : 71492.00  
 C/A epoch : 2025-10-10T17:19:14.540  
 Event type : Pgt  
 : Jupiter occs: geocentric, topocentric  
 : Not a ringed target  
 Gaia source ID : 673245164555696768  
 2Mass ID (if available) : 07400416+2129014

Jupiter 2025-10-10T17:19:14 K9.43 G11.60 Pgt

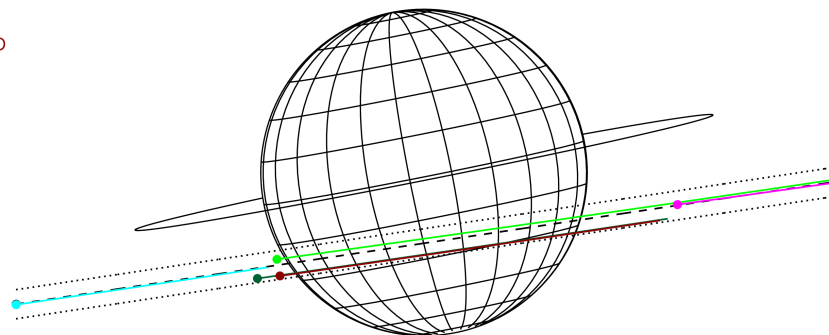
ICRS Star Coord at Epoch: 07h 40m 04.15888s +21:29:01.35998s

RUWE (>1.4 is poor) : 0.82  
 K magnitude : 9.431  
 G magnitude : 11.598  
 RP magnitude : 10.924  
 BP magnitude : 12.118  
 DUPflag : 0  
 Distance (au) : 5.188  
 f0 (km) : 0.00  
 g0 (km) : 0.00  
 skyplane vel. (km/s) : 15.30  
 Sun-Target sep (deg) : 84.13  
 Sun-Moon sep (deg) : 46.27  
 B (ring opening deg) : 1.52  
 PA of pole (deg) : 11.26  
 Pole direction: RA (deg): 268.05773  
 Dec (deg): 64.49670  
 C/A sky separation (") : 8.145  
 C/A sky separation (km) : 30647.6  
 NAIF SPICE kernels : RAJobs\_U111+rgf15.spk

Jupiter 2025-10-10T17:19:14 K9.43 G11.60  
 Pgt



Earth  
 PMO  
 IRTF  
 KAV  
 AAT  
 MSO

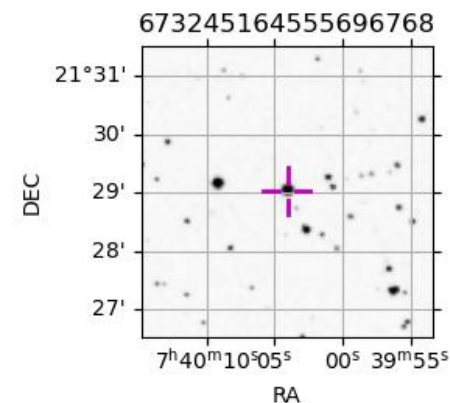


2025-10-10T17:19:14.5400 α: 07 40 04.15888 δ: +21 29 01.360 C/A 8.137" PA 8.50 deg v\_sky +15.30 km/s D 05.19 AU

Credit: Styled after SORA/Lucky Star

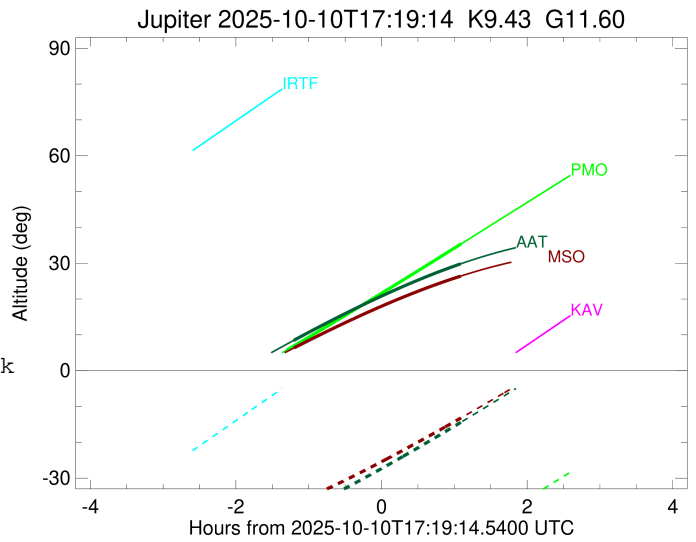
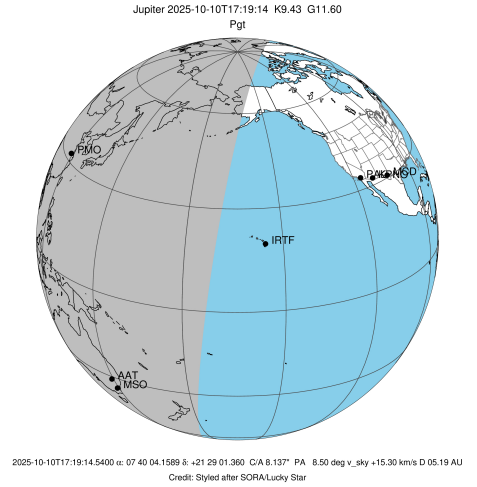
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OEncode
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	+ +	OCT 10 16:01 - OCT 10 18:24	Pie
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			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	+ +	OCT 10 16:06 - OCT 10 18:24	Pie
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8			Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0	+ +	OCT 10 16:07 - OCT 10 18:24	Pie



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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2025-10-10T17:12:48.810
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       : 673245164555696768
2Mass ID (if available) : 07400416+2129014
ICRS Star Coord at Epoch: 07h 40m 04.15888s +21:29:01.35998s
RUWE (>1.4 is poor) : 0.82
K magnitude           : 9.431
G magnitude           : 11.598
RP magnitude          : 10.924
BP magnitude          : 12.118
DUPflag              : 0
Distance (au)        : 5.188
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 15.30
Sun-Target sep (deg) : 84.13
Sun-Moon sep (deg)   : 45.90
B (ring opening deg) : 1.52
PA of pole (deg)     : 11.26
Pole direction: RA (deg): 268.05773
Dec (deg): 64.49670
C/A sky separation (") : 7.635
C/A sky separation (km) : 28726.4
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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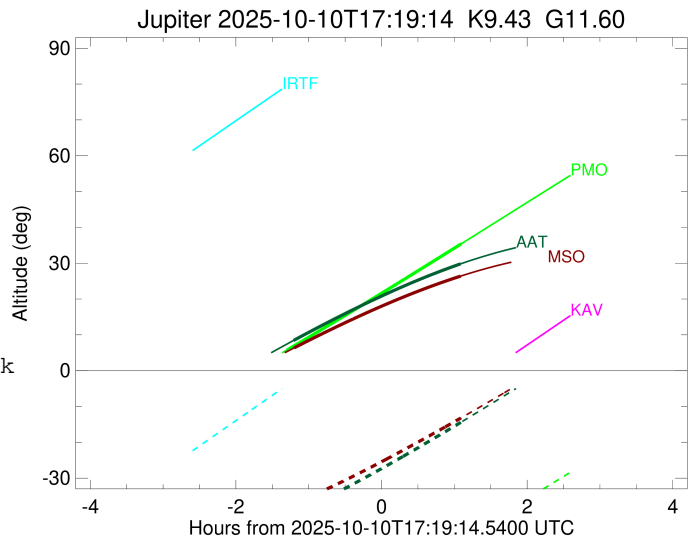
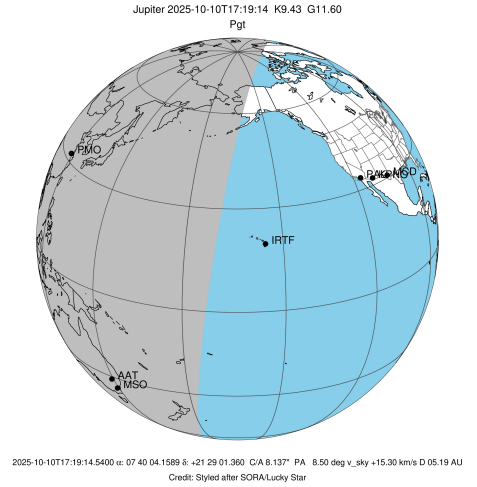


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2025-10-10T16:01:23.339	5.77	-64.92	71491.6	-20.40	-23.01
Jupiter	E	2025-10-10T18:24:55.310	35.40	-46.47	71491.4	-26.87	-30.04

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2025-10-10T17:15:25.790
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      : 673245164555696768
2Mass ID (if available) : 07400416+2129014
ICRS Star Coord at Epoch: 07h 40m 04.15888s +21:29:01.35998s
RUWE (>1.4 is poor) : 0.82
K magnitude          : 9.431
G magnitude          : 11.598
RP magnitude         : 10.924
BP magnitude         : 12.118
DUPflag             : 0
Distance (au)       : 5.188
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 15.30
Sun-Target sep (deg) : 84.13
Sun-Moon sep (deg)  : 46.26
B (ring opening deg) : 1.52
PA of pole (deg)    : 11.26
Pole direction: RA (deg): 268.05773
Dec (deg): 64.49670
C/A sky separation (") : 9.463
C/A sky separation (km) : 35607.7
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
    
```

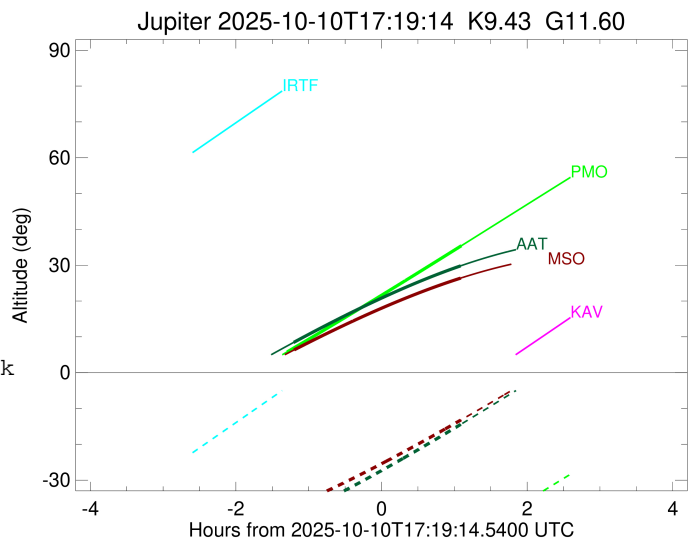
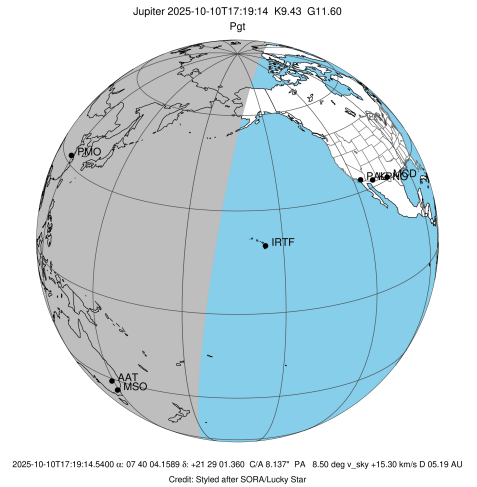


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2025-10-10T16:06:52.181	8.45	-39.94	71491.4	-26.77	-29.93
Jupiter	E	2025-10-10T18:24:29.133	29.82	-14.45	71491.1	-32.79	-36.30

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2025-10-10T17:15:40.870
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      : 673245164555696768
2Mass ID (if available) : 07400416+2129014
ICRS Star Coord at Epoch: 07h 40m 04.15888s +21:29:01.35998s
RUWE (>1.4 is poor) : 0.82
K magnitude          : 9.431
G magnitude          : 11.598
RP magnitude         : 10.924
BP magnitude         : 12.118
DUPflag             : 0
Distance (au)       : 5.188
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 15.30
Sun-Target sep (deg) : 84.13
Sun-Moon sep (deg)  : 46.26
B (ring opening deg) : 1.52
PA of pole (deg)    : 11.26
Pole direction: RA (deg): 268.05773
Dec (deg): 64.49670
C/A sky separation ("): 9.532
C/A sky separation (km): 35865.4
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	2025-10-10T16:07:20.035	6.37	-37.07	71491.3	-27.03	-30.21
Jupiter	E	2025-10-10T18:24:30.172	26.40	-13.24	71491.1	-33.02	-36.54