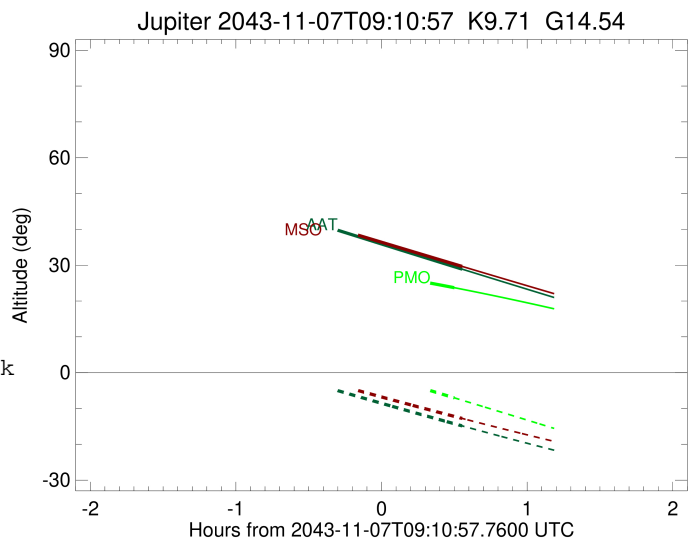
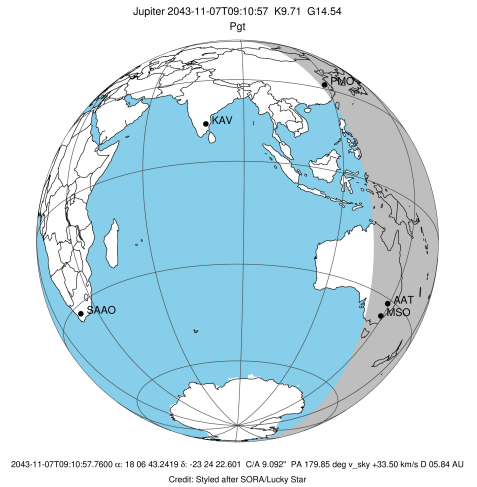



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-11-07T09:12:25.470
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       : 4066547401784787456
2Mass ID (if available) : 18064323-2324226
ICRS Star Coord at Epoch: 18h 06m 43.24185s -23:24:22.60068s
RUWE (>1.4 is poor) : 1.09
K magnitude           : 9.715
G magnitude           : 14.543
RP magnitude         : 13.317
BP magnitude         : 16.082
DUPflag              : 0
Distance (au)        : 5.838
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 33.50
Sun-Target sep (deg) : 47.31
Sun-Moon sep (deg)   : 14.02
B (ring opening deg) : -2.05
PA of pole (deg)     : -1.56
Pole direction: RA (deg): 268.05676
Dec (deg): 64.49731
C/A sky separation ("): 10.259
C/A sky separation (km): 43437.5
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
    
```

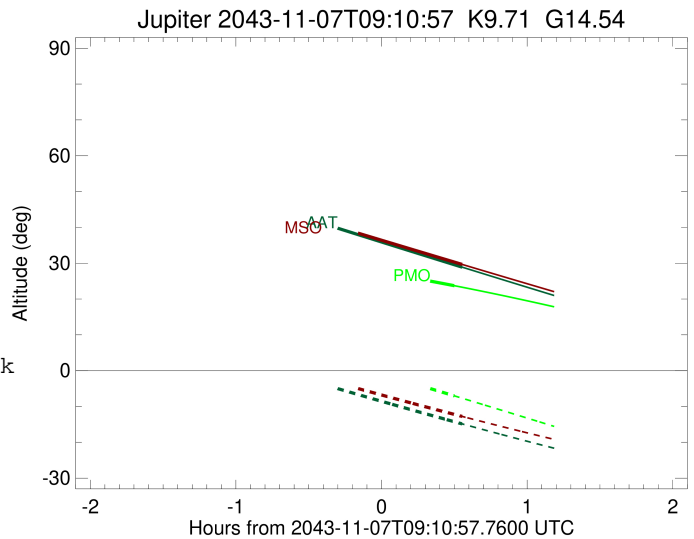
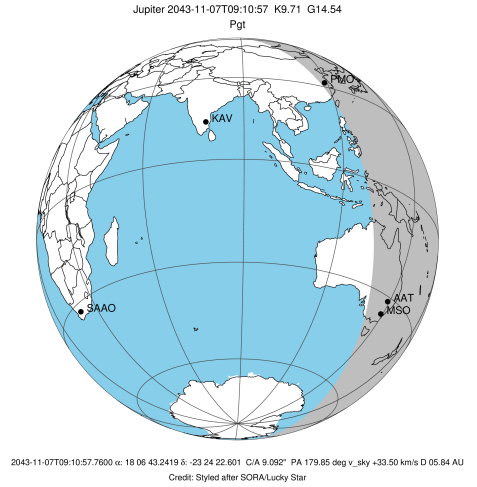


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-11-07T08:43:51.911	30.16	4.46x	71490.0	36.11	39.74
Jupiter	E	2043-11-07T09:40:57.295	23.72	-7.02	71489.8	38.64	42.33

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-11-07T09:13:25.190
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       : 4066547401784787456
2Mass ID (if available) : 18064323-2324226
ICRS Star Coord at Epoch: 18h 06m 43.24185s -23:24:22.60068s
RUWE (>1.4 is poor) : 1.09
K magnitude           : 9.715
G magnitude           : 14.543
RP magnitude         : 13.317
BP magnitude         : 16.082
DUPflag              : 0
Distance (au)        : 5.838
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 33.50
Sun-Target sep (deg) : 47.31
Sun-Moon sep (deg)   : 13.44
B (ring opening deg) : -2.05
PA of pole (deg)     : -1.56
Pole direction: RA (deg): 268.05676
Dec (deg): 64.49731
C/A sky separation ("): 8.621
C/A sky separation (km): 36502.7
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
    
```

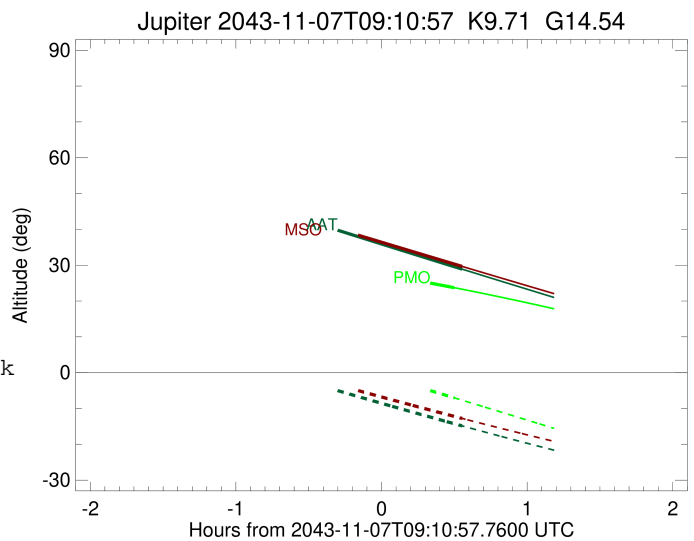
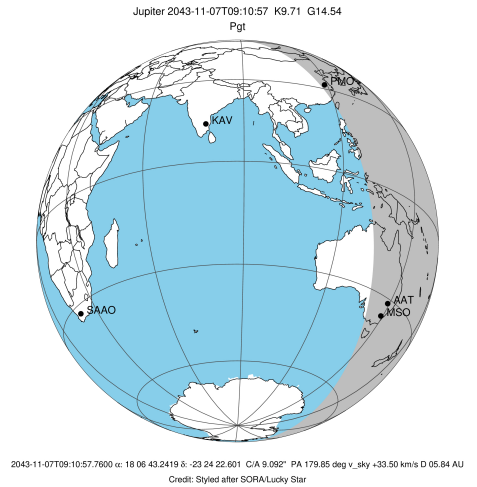


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-11-07T08:42:38.007	41.96	-2.96x	71490.6	29.51	32.85
Jupiter	E	2043-11-07T09:44:09.275	28.90	-14.84	71490.4	31.84	35.31

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-11-07T09:13:18.270
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        : 4066547401784787456
2Mass ID (if available) : 18064323-2324226
ICRS Star Coord at Epoch: 18h 06m 43.24185s -23:24:22.60068s
RUWE (>1.4 is poor) : 1.09
K magnitude           : 9.715
G magnitude           : 14.543
RP magnitude          : 13.317
BP magnitude          : 16.082
DUPflag              : 0
Distance (au)         : 5.838
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 33.50
Sun-Target sep (deg)  : 47.31
Sun-Moon sep (deg)    : 13.45
B (ring opening deg) : -2.05
PA of pole (deg)      : -1.56
Pole direction: RA (deg): 268.05676
Dec (deg): 64.49731
C/A sky separation (") : 8.530
C/A sky separation (km) : 36116.7
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	2043-11-07T08:42:24.746	42.25	-1.43x	71490.6	29.14	32.46
Jupiter	E	2043-11-07T09:44:08.785	29.67	-12.76	71490.4	31.49	34.94