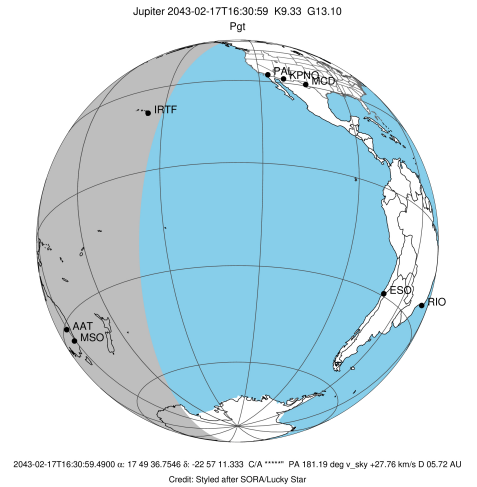
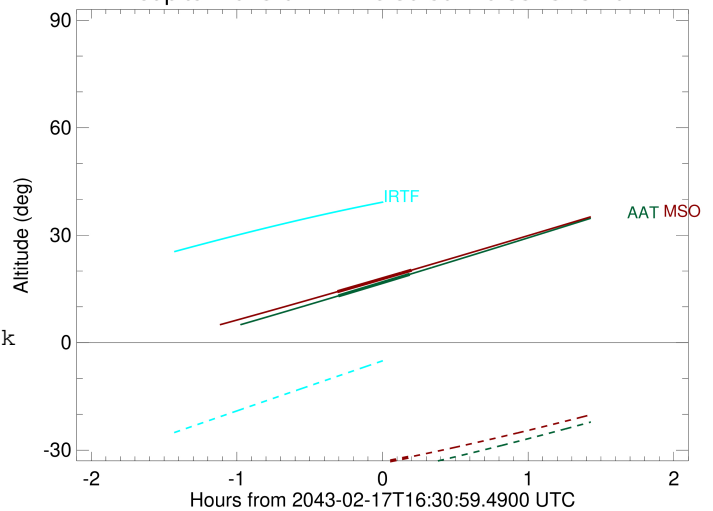



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-02-17T16:27:31.950
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        : 4068877095154972928
2Mass ID (if available) : 17493676-2257112
ICRS Star Coord at Epoch: 17h 49m 36.75460s -22:57:11.33265s
RUWE (>1.4 is poor)  : 0.84
K magnitude           : 9.329
G magnitude           : 13.099
RP magnitude          : 12.047
BP magnitude          : 14.236
DUPflag              : 0
Distance (au)         : 5.721
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 27.76
Sun-Target sep (deg)  : 60.70
Sun-Moon sep (deg)    : 161.91
B (ring opening deg) : -2.55
PA of pole (deg)      : 0.28
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 16.192
C/A sky separation (km) : 67181.0
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
    
```



Jupiter 2043-02-17T16:30:59 K9.33 G13.10

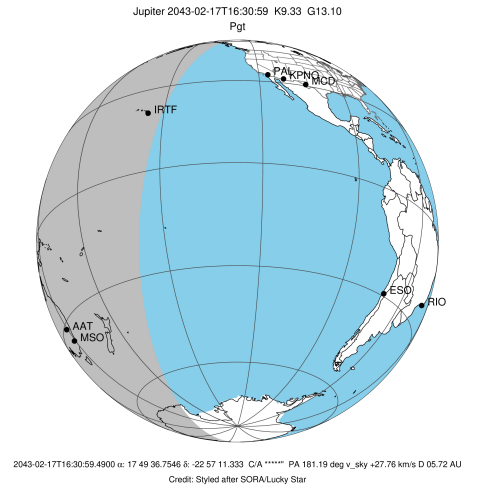


x: target alt < 5.0 deg or sun > -5.0 deg

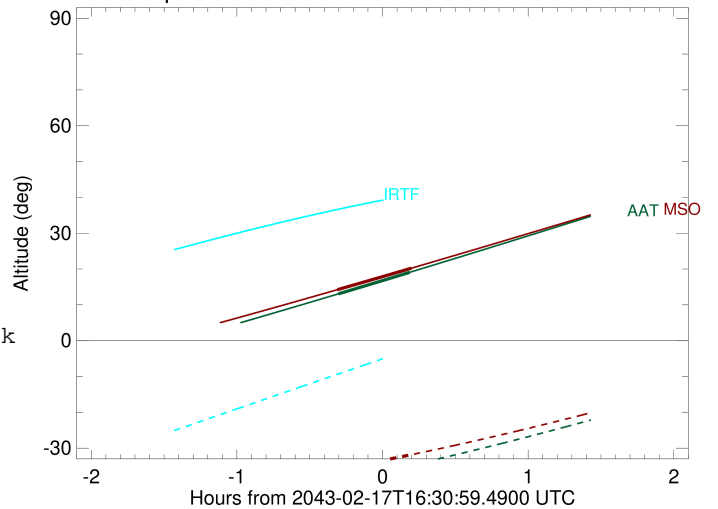
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-17T16:12:51.402	13.07	-38.91	71484.3	68.64	70.99
Jupiter	E	2043-02-17T16:42:13.451	19.08	-34.79	71484.1	71.08	73.20

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-02-17T16:27:41.670
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       : 4068877095154972928
2Mass ID (if available) : 17493676-2257112
ICRS Star Coord at Epoch: 17h 49m 36.75460s -22:57:11.33265s
RUWE (>1.4 is poor) : 0.84
K magnitude           : 9.329
G magnitude           : 13.099
RP magnitude         : 12.047
BP magnitude         : 14.236
DUPflag              : 0
Distance (au)        : 5.721
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 27.76
Sun-Target sep (deg) : 60.70
Sun-Moon sep (deg)  : 161.94
B (ring opening deg) : -2.55
PA of pole (deg)    : 0.28
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 16.107
C/A sky separation (km) : 66830.4
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
    
```



Jupiter 2043-02-17T16:30:59 K9.33 G13.10



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	2043-02-17T16:12:27.147	14.24	-35.74	71484.4	67.86	70.28
Jupiter	E	2043-02-17T16:42:57.180	20.23	-31.81	71484.2	70.27	72.46