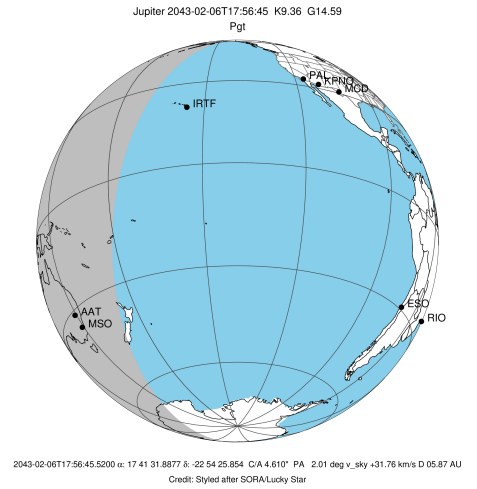


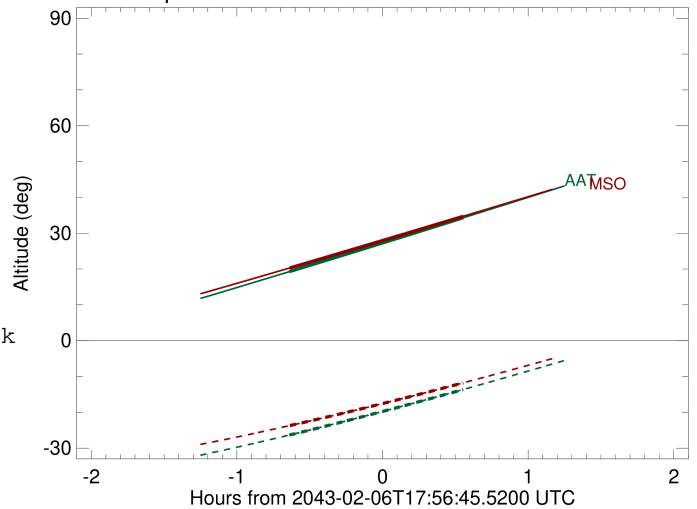


```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-02-06T17:54:08.110
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        : 4116924894345643392
2Mass ID (if available) : 17413189-2254257
ICRS Star Coord at Epoch: 17h 41m 31.88767s -22:54:25.85449s
RUWE (>1.4 is poor) : 0.97
K magnitude           : 9.364
G magnitude           : 14.592
RP magnitude          : 13.266
BP magnitude          : 16.592
DUPflag              : 0
Distance (au)         : 5.869
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 31.76
Sun-Target sep (deg)  : 51.49
Sun-Moon sep (deg)    : 14.51
B (ring opening deg) : -2.57
PA of pole (deg)      : 1.15
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (" ) : 5.193
C/A sky separation (km) : 22101.2
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 2043-02-06T17:56:45 K9.36 G14.59

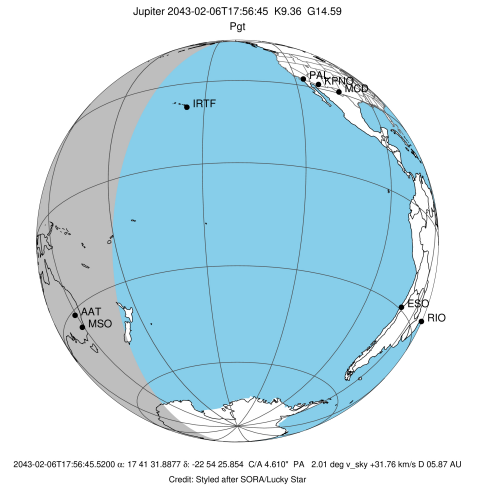


x: target alt < 5.0 deg or sun > -5.0 deg

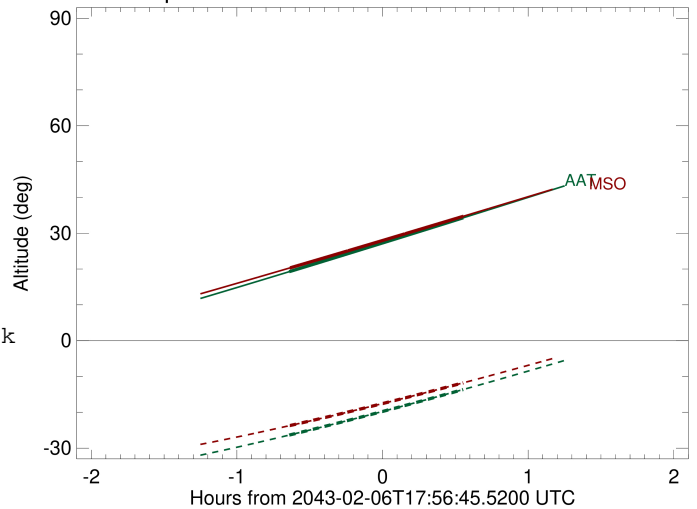
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-06T17:18:21.967	19.26	-26.34	71491.0	-19.12	-21.60
Jupiter	E	2043-02-06T18:29:58.956	34.29	-13.64	71491.2	-16.87	-19.11

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-06T17:54:15.710
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      : 4116924894345643392
2Mass ID (if available) : 17413189-2254257
ICRS Star Coord at Epoch: 17h 41m 31.88767s -22:54:25.85449s
RUWE (>1.4 is poor) : 0.97
K magnitude          : 9.364
G magnitude          : 14.592
RP magnitude         : 13.266
BP magnitude         : 16.592
DUPflag             : 0
Distance (au)       : 5.869
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 31.76
Sun-Target sep (deg) : 51.49
Sun-Moon sep (deg)  : 14.46
B (ring opening deg) : -2.57
PA of pole (deg)    : 1.15
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (" ) : 5.279
C/A sky separation (km) : 22469.9
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 2043-02-06T17:56:45 K9.36 G14.59



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	2043-02-06T17:18:33.668	20.30	-23.70	71491.0	-19.42	-21.93
Jupiter	E	2043-02-06T18:30:02.261	34.72	-11.76	71491.2	-17.19	-19.47