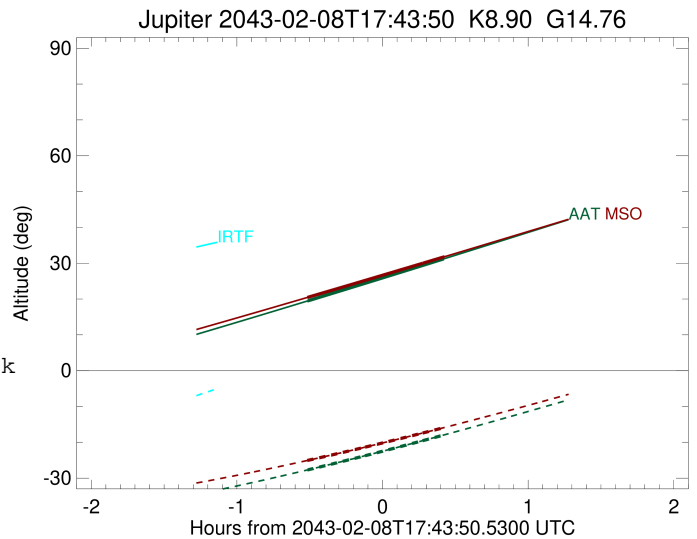
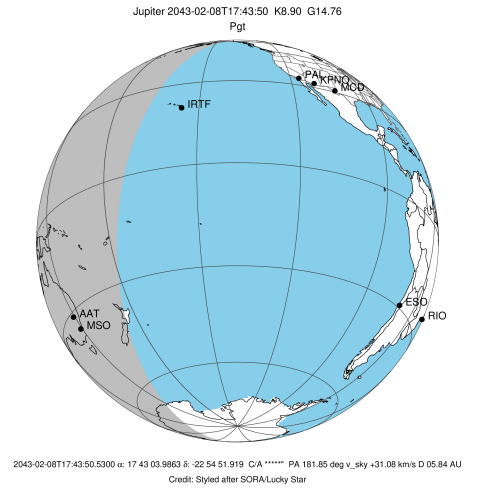




```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-08T17:40:56.770
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      : 4116880668969378304
2Mass ID (if available) : 17430400-2254514
ICRS Star Coord at Epoch: 17h 43m 03.98632s -22:54:51.91873s
RUWE (>1.4 is poor) : 0.94
K magnitude          : 8.904
G magnitude          : 14.764
RP magnitude         : 13.310
BP magnitude         : 17.544
DUPflag             : 0
Distance (au)       : 5.843
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 31.07
Sun-Target sep (deg) : 53.15
Sun-Moon sep (deg)  : 39.77
B (ring opening deg) : -2.57
PA of pole (deg)    : 0.99
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (") : 11.562
C/A sky separation (km) : 48994.8
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
    
```

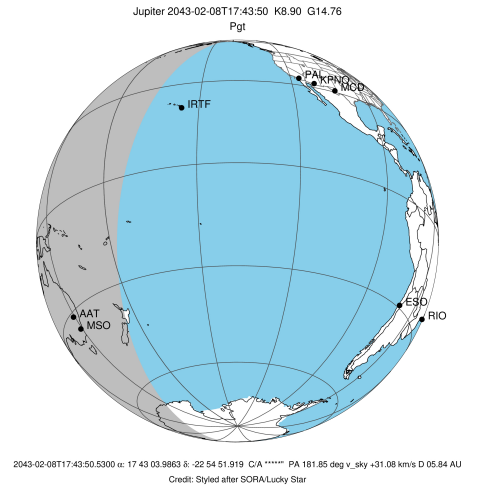


x: target alt < 5.0 deg or sun > -5.0 deg

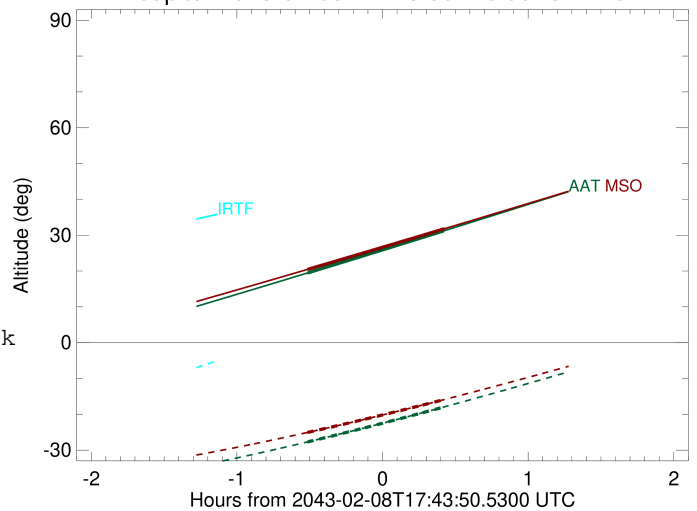
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-08T17:12:57.074	19.46	-27.70	71488.0	42.07	45.78
Jupiter	E	2043-02-08T18:08:59.481	31.18	-17.98	71487.6	44.34	48.05

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-08T17:41:05.090
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       : 4116880668969378304
2Mass ID (if available) : 17430400-2254514
ICRS Star Coord at Epoch: 17h 43m 03.98632s -22:54:51.91873s
RUWE (>1.4 is poor) : 0.94
K magnitude          : 8.904
G magnitude          : 14.764
RP magnitude         : 13.310
BP magnitude         : 17.544
DUPflag             : 0
Distance (au)        : 5.843
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 31.07
Sun-Target sep (deg) : 53.15
Sun-Moon sep (deg)   : 39.74
B (ring opening deg) : -2.57
PA of pole (deg)     : 0.99
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (") : 11.475
C/A sky separation (km) : 48628.2
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 2043-02-08T17:43:50 K8.90 G14.76



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	2043-02-08T17:12:54.563	20.44	-25.06	71488.0	41.68	45.40
Jupiter	E	2043-02-08T18:09:18.544	31.79	-15.87	71487.7	43.93	47.64