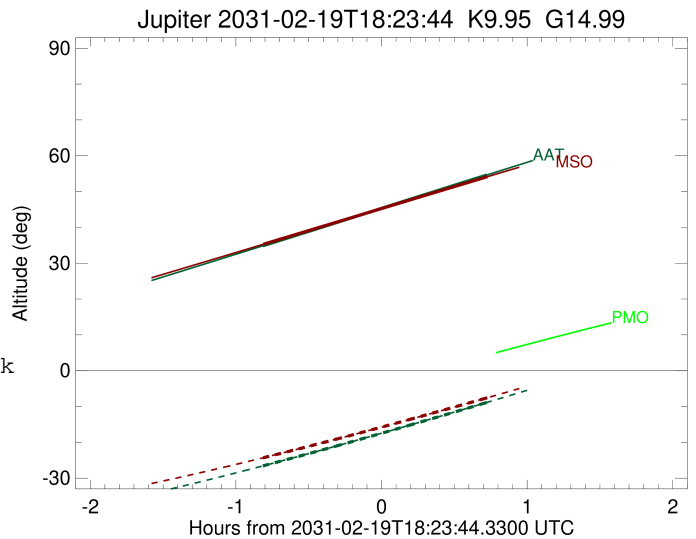
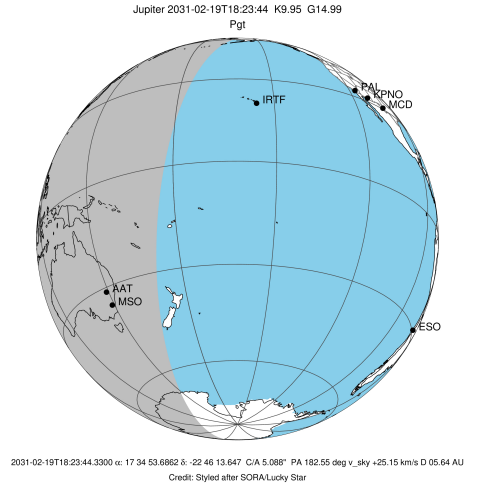



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2031-02-19T18:20:56.130
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        : 4116710661378471808
2Mass ID (if available) : 17345370-2246134
ICRS Star Coord at Epoch: 17h 34m 53.68625s -22:46:13.64662s
RUWE (>1.4 is poor) : 1.03
K magnitude           : 9.946
G magnitude           : 14.994
RP magnitude          : 13.690
BP magnitude          : 16.849
DUPflag              : 0
Distance (au)         : 5.639
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 25.15
Sun-Target sep (deg)  : 66.26
Sun-Moon sep (deg)    : 41.75
B (ring opening deg)  : -2.67
PA of pole (deg)      : 1.87
Pole direction: RA (deg): 268.05702
Dec (deg): 64.49651
C/A sky separation (") : 4.643
C/A sky separation (km) : 18989.3
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
    
```

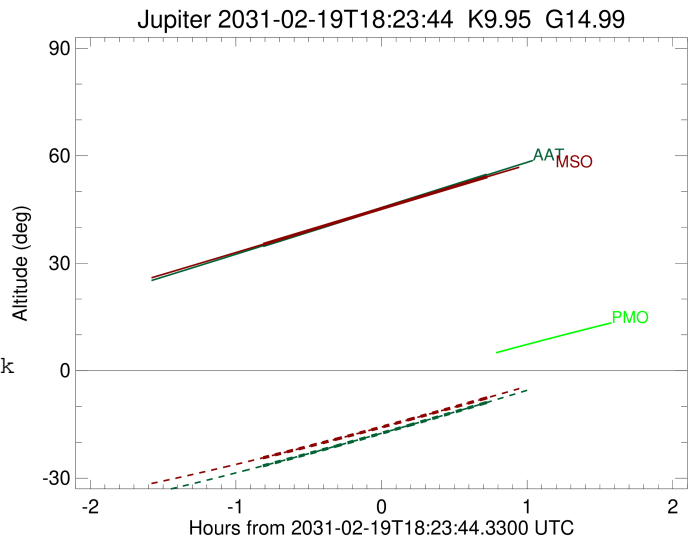
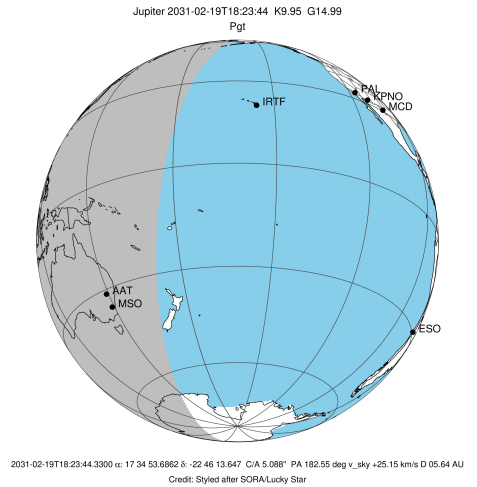


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2031-02-19T17:34:52.227	34.86	-26.58	71491.4	14.39	16.35
Jupiter	E	2031-02-19T19:07:08.739	54.61	-8.87	71491.2	16.34	18.52

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2031-02-19T18:21:04.550
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        : 4116710661378471808
2Mass ID (if available) : 17345370-2246134
ICRS Star Coord at Epoch: 17h 34m 53.68625s -22:46:13.64662s
RUWE (>1.4 is poor)  : 1.03
K magnitude           : 9.946
G magnitude           : 14.994
RP magnitude          : 13.690
BP magnitude          : 16.849
DUPflag              : 0
Distance (au)         : 5.639
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 25.15
Sun-Target sep (deg)  : 66.26
Sun-Moon sep (deg)    : 41.73
B (ring opening deg) : -2.67
PA of pole (deg)      : 1.87
Pole direction: RA (deg): 268.05702
Dec (deg): 64.49651
C/A sky separation (") : 4.546
C/A sky separation (km) : 18590.6
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	2031-02-19T17:34:57.391	35.26	-24.32	71491.4	14.08	15.99
Jupiter	E	2031-02-19T19:07:20.102	54.13	-7.56	71491.3	16.00	18.14