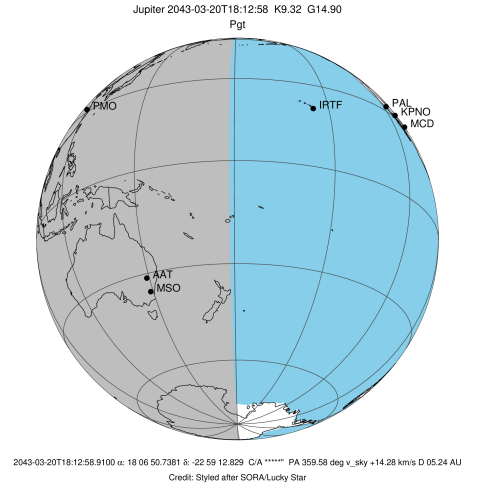
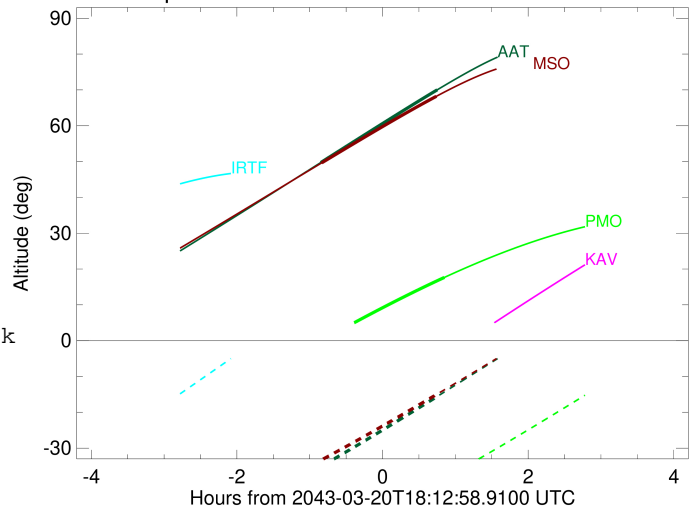



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-20T18:07:59.930
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        : 4069577174788910848
2Mass ID (if available) : 18065073-2259126
ICRS Star Coord at Epoch: 18h 06m 50.73813s -22:59:12.82856s
RUWE (>1.4 is poor) : 1.05
K magnitude           : 9.319
G magnitude           : 14.899
RP magnitude          : 13.584
BP magnitude          : 16.902
DUPflag              : 0
Distance (au)         : 5.240
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 14.28
Sun-Target sep (deg)  : 87.86
Sun-Moon sep (deg)   : 148.61
B (ring opening deg) : -2.47
PA of pole (deg)     : -1.57
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 14.145
C/A sky separation (km) : 53760.6
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
    
```



Jupiter 2043-03-20T18:12:58 K9.32 G14.90

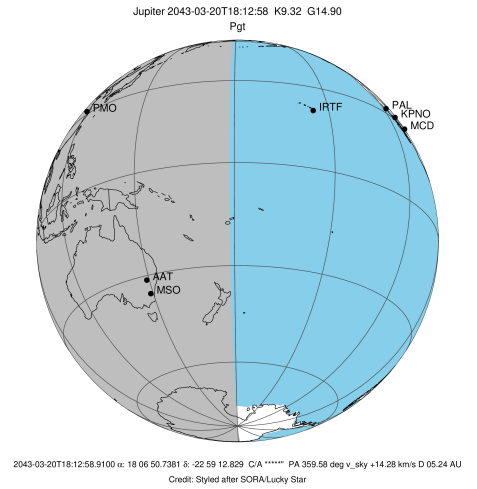


x: target alt < 5.0 deg or sun > -5.0 deg

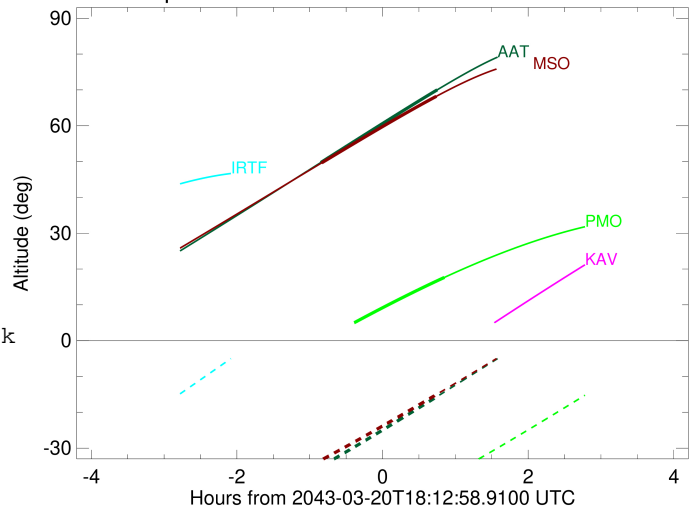
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-20T17:12:34.715	-1.93x	-55.05	71487.0	-50.44	-54.01
Jupiter	E	2043-03-20T19:03:49.266	17.63	-38.41	71487.5	-47.04	-50.71

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-20T18:09:55.570
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        : 4069577174788910848
2Mass ID (if available) : 18065073-2259126
ICRS Star Coord at Epoch: 18h 06m 50.73813s -22:59:12.82856s
RUWE (>1.4 is poor) : 1.05
K magnitude           : 9.319
G magnitude           : 14.899
RP magnitude          : 13.584
BP magnitude          : 16.902
DUPflag              : 0
Distance (au)         : 5.240
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 14.28
Sun-Target sep (deg) : 87.86
Sun-Moon sep (deg)   : 148.62
B (ring opening deg) : -2.47
PA of pole (deg)     : -1.57
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 15.541
C/A sky separation (km) : 59065.2
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 2043-03-20T18:12:58 K9.32 G14.90

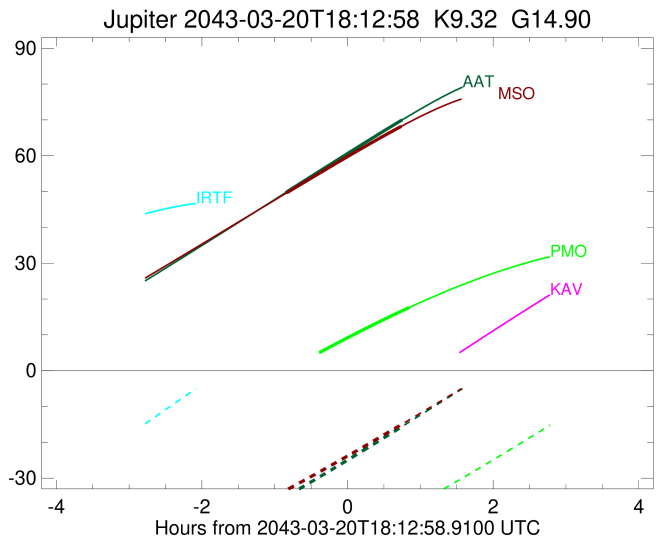
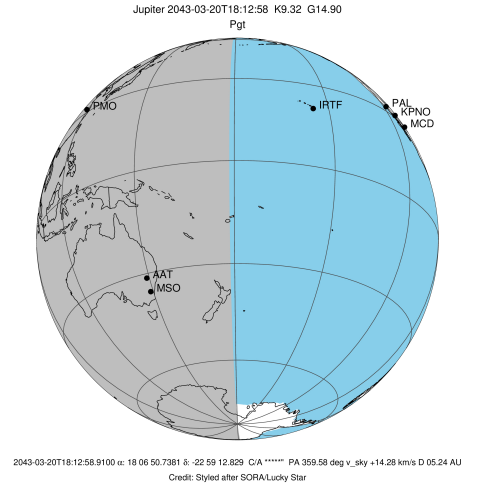


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-20T17:21:59.673	49.69	-35.17	71486.1	-57.17	-60.42
Jupiter	E	2043-03-20T18:58:03.871	70.01	-15.57	71486.5	-54.22	-57.63

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-03-20T18:10:03.470
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      : 4069577174788910848
2Mass ID (if available) : 18065073-2259126
ICRS Star Coord at Epoch: 18h 06m 50.73813s -22:59:12.82856s
RUWE (>1.4 is poor) : 1.05
K magnitude         : 9.319
G magnitude         : 14.899
RP magnitude        : 13.584
BP magnitude        : 16.902
DUPflag            : 0
Distance (au)       : 5.240
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 14.28
Sun-Target sep (deg) : 87.86
Sun-Moon sep (deg)  : 148.59
B (ring opening deg) : -2.47
PA of pole (deg)    : -1.57
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (" ) : 15.653
C/A sky separation (km) : 59493.0
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
    
```



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	2043-03-20T17:22:55.501	49.64	-33.25	71486.0	-57.76	-60.97
Jupiter	E	2043-03-20T18:57:23.044	68.21	-15.04	71486.4	-54.84	-58.22