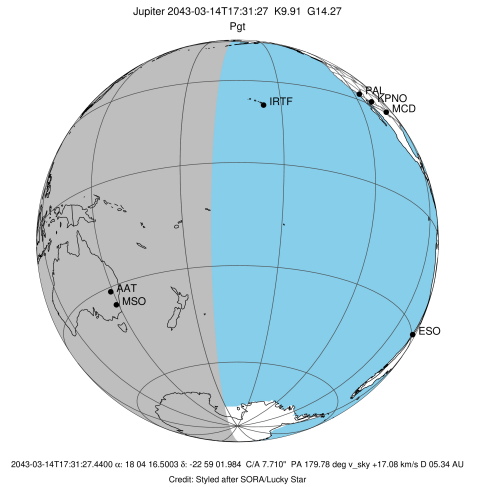
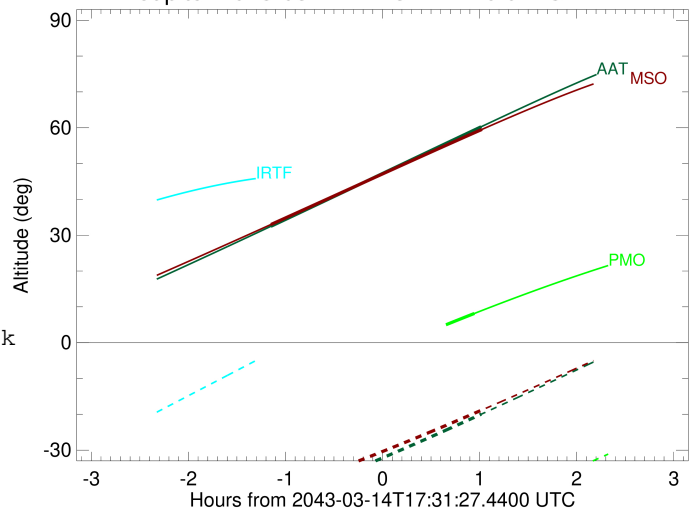



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T17:26:00.850
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       : 4069588680984057728
2Mass ID (if available) : 18041650-2259018
ICRS Star Coord at Epoch: 18h 04m 16.50027s -22:59:01.98359s
RUWE (>1.4 is poor) : 1.03
K magnitude           : 9.910
G magnitude           : 14.271
RP magnitude          : 13.139
BP magnitude          : 15.616
DUPflag              : 0
Distance (au)        : 5.338
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 17.08
Sun-Target sep (deg) : 82.45
Sun-Moon sep (deg)   : 127.76
B (ring opening deg) : -2.49
PA of pole (deg)     : -1.30
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 8.635
C/A sky separation (km) : 33426.7
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 2043-03-14T17:31:27 K9.91 G14.27

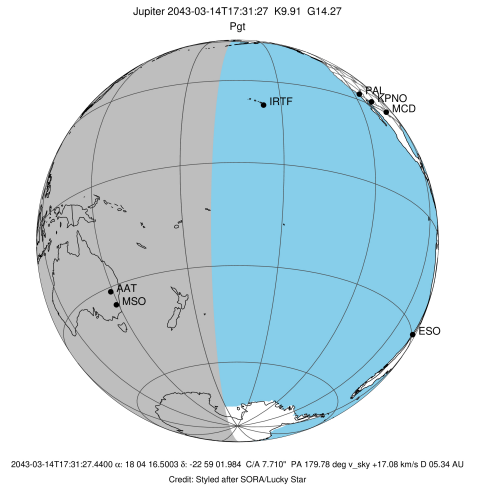


x: target alt < 5.0 deg or sun > -5.0 deg

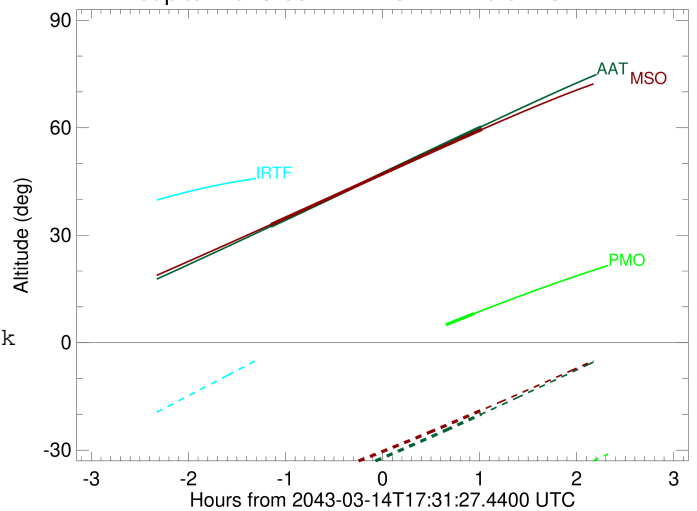
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T16:24:19.769	-15.61x	-60.39	71490.3	26.26	29.38
Jupiter	E	2043-03-14T18:28:09.958	8.14	-46.75	71490.0	29.41	32.74

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T17:27:15.840
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        : 4069588680984057728
2Mass ID (if available) : 18041650-2259018
ICRS Star Coord at Epoch: 18h 04m 16.50027s -22:59:01.98359s
RUWE (>1.4 is poor) : 1.03
K magnitude           : 9.910
G magnitude           : 14.271
RP magnitude          : 13.139
BP magnitude          : 15.616
DUPflag              : 0
Distance (au)         : 5.338
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 17.08
Sun-Target sep (deg)  : 82.45
Sun-Moon sep (deg)    : 128.45
B (ring opening deg) : -2.49
PA of pole (deg)      : -1.30
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 7.309
C/A sky separation (km) : 28296.3
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
    
```



Jupiter 2043-03-14T17:31:27 K9.91 G14.27

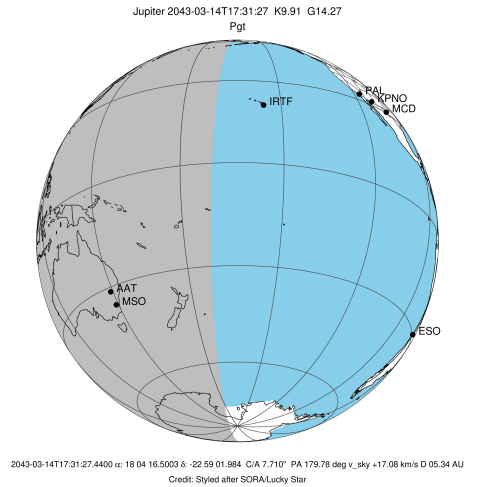


x: target alt < 5.0 deg or sun > -5.0 deg

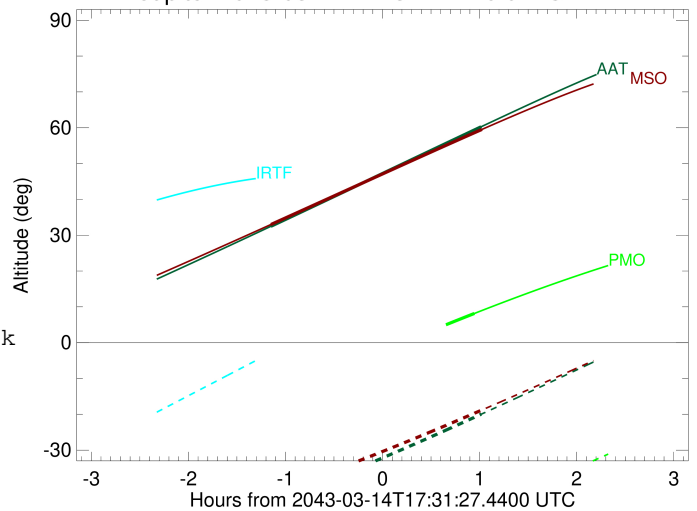
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T16:22:25.067	32.47	-44.49	71490.8	21.79	24.53
Jupiter	E	2043-03-14T18:32:31.867	60.28	-19.96	71490.5	24.70	27.70

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T17:27:27.090
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       : 4069588680984057728
2Mass ID (if available) : 18041650-2259018
ICRS Star Coord at Epoch: 18h 04m 16.50027s -22:59:01.98359s
RUWE (>1.4 is poor) : 1.03
K magnitude           : 9.910
G magnitude           : 14.271
RP magnitude         : 13.139
BP magnitude         : 15.616
DUPflag              : 0
Distance (au)        : 5.338
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 17.08
Sun-Target sep (deg) : 82.45
Sun-Moon sep (deg)   : 128.46
B (ring opening deg) : -2.49
PA of pole (deg)     : -1.30
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation ("): 7.203
C/A sky separation (km): 27886.0
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 2043-03-14T17:31:27 K9.91 G14.27



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	2043-03-14T16:22:28.297	32.97	-41.78	71490.9	21.45	24.16
Jupiter	E	2043-03-14T18:32:50.311	59.51	-18.81	71490.6	24.33	27.30