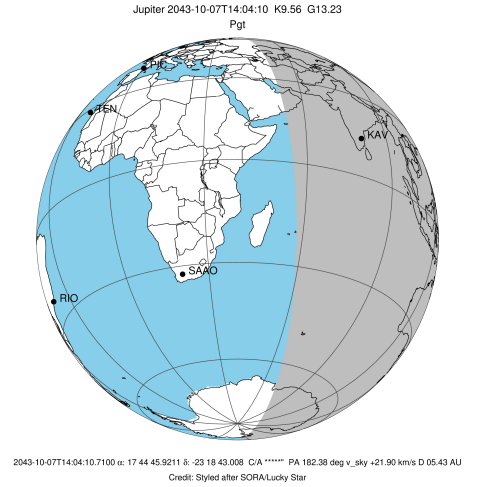
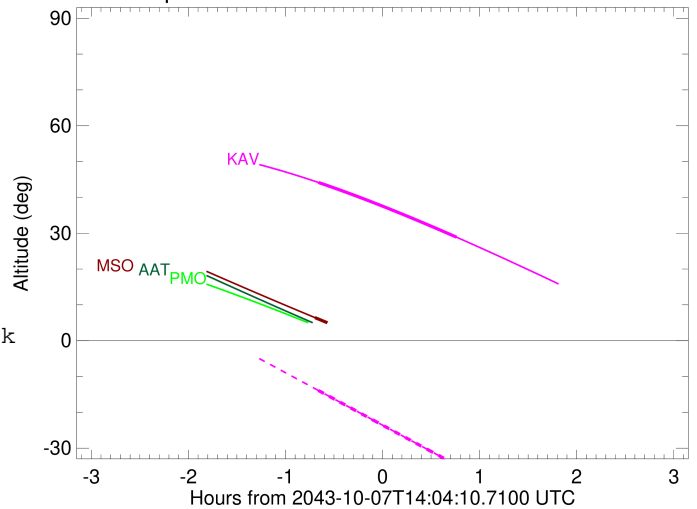



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-07T14:07:17.750
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : KAV
Location            : Kavalur Observatory
Latitude (deg)      : 12.57556
E. Longitude (deg)  : 78.83167
Altitude (km)       : 0.722
Gaia source ID      : 4068805656908153984
2Mass ID (if available) : 17444591-2318429
ICRS Star Coord at Epoch: 17h 44m 45.92113s -23:18:43.00800s
RUWE (>1.4 is poor) : 0.89
K magnitude          : 9.558
G magnitude          : 13.230
RP magnitude         : 12.202
BP magnitude         : 14.316
DUPflag             : 0
Distance (au)       : 5.434
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 21.90
Sun-Target sep (deg) : 72.91
Sun-Moon sep (deg)  : 24.80
B (ring opening deg) : -2.18
PA of pole (deg)    : 0.80
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (" ) : 11.556
C/A sky separation (km) : 45543.1
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 2043-10-07T14:04:10 K9.56 G13.23

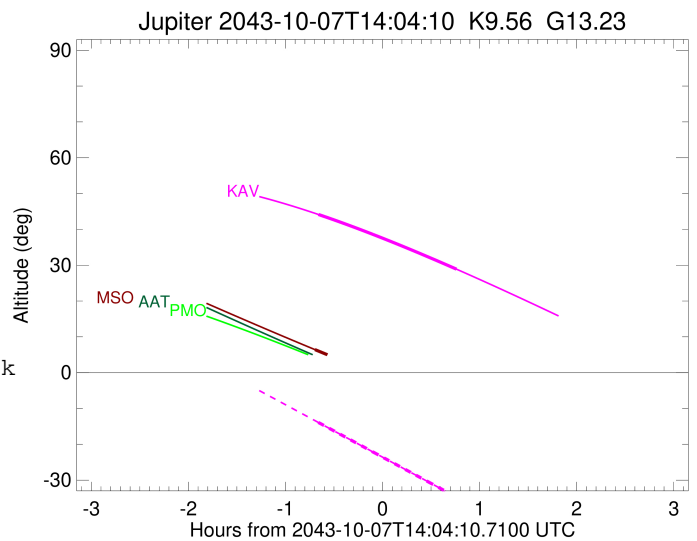
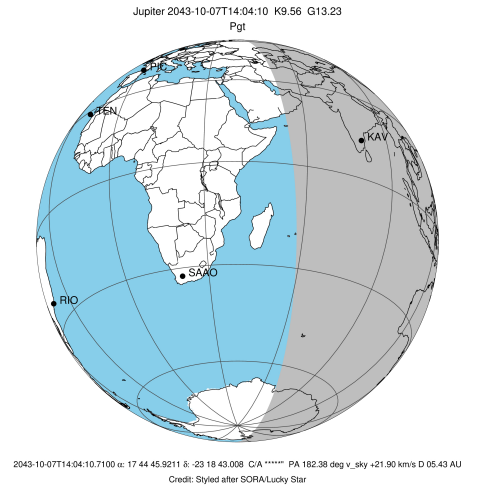


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-10-07T13:24:34.804	44.15	-13.91	71489.5	38.20	41.88
Jupiter	E	2043-10-07T14:49:52.500	28.89	-34.73	71489.2	40.80	44.52

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-07T14:08:12.140
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      : 4068805656908153984
2Mass ID (if available) : 17444591-2318429
ICRS Star Coord at Epoch: 17h 44m 45.92113s -23:18:43.00800s
RUWE (>1.4 is poor) : 0.89
K magnitude          : 9.558
G magnitude          : 13.230
RP magnitude         : 12.202
BP magnitude         : 14.316
DUPflag             : 0
Distance (au)       : 5.434
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 21.90
Sun-Target sep (deg) : 72.91
Sun-Moon sep (deg)  : 24.53
B (ring opening deg) : -2.18
PA of pole (deg)    : 0.80
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (" ) : 9.728
C/A sky separation (km) : 38338.5
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	2043-10-07T13:22:27.105	6.43	-48.69	71490.3	31.22	34.66
Jupiter	E	2043-10-07T14:53:46.243	-9.63x	-46.71	71490.0	33.61	37.15