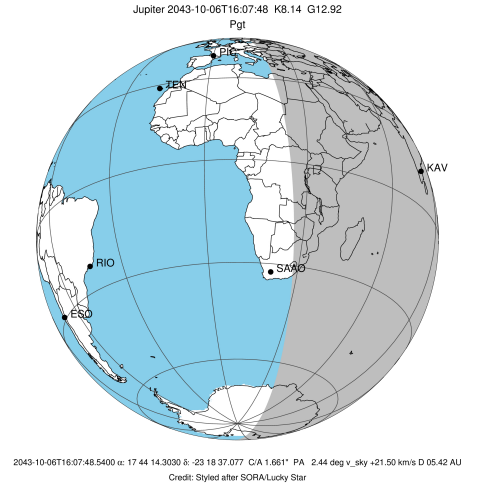
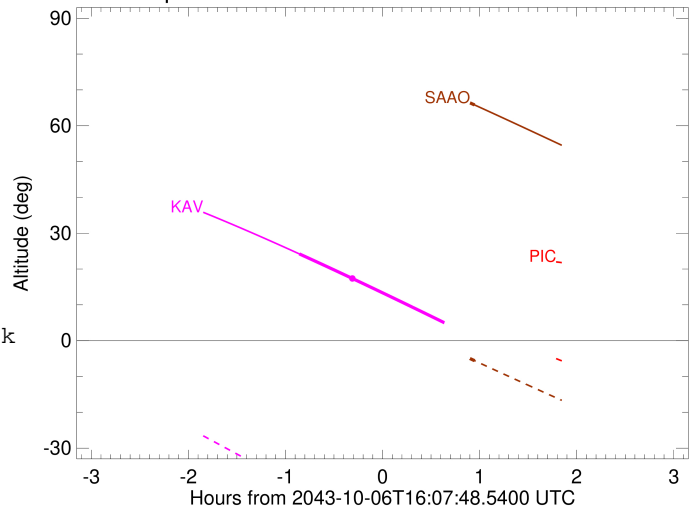



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-10-06T16:12:15.980
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        : 4068811876020846720
2Mass ID (if available) : 17441431-2318370
ICRS Star Coord at Epoch: 17h 44m 14.30297s -23:18:37.07668s
RUWE (>1.4 is poor) : 0.81
K magnitude           : 8.143
G magnitude           : 12.921
RP magnitude          : 11.676
BP magnitude          : 14.629
DUPflag              : 0
Distance (au)         : 5.420
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 21.50
Sun-Target sep (deg) : 73.69
Sun-Moon sep (deg)   : 35.33
B (ring opening deg) : -2.18
PA of pole (deg)     : 0.86
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation ("): 1.064
C/A sky separation (km): 4181.2
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 2043-10-06T16:07:48 K8.14 G12.92

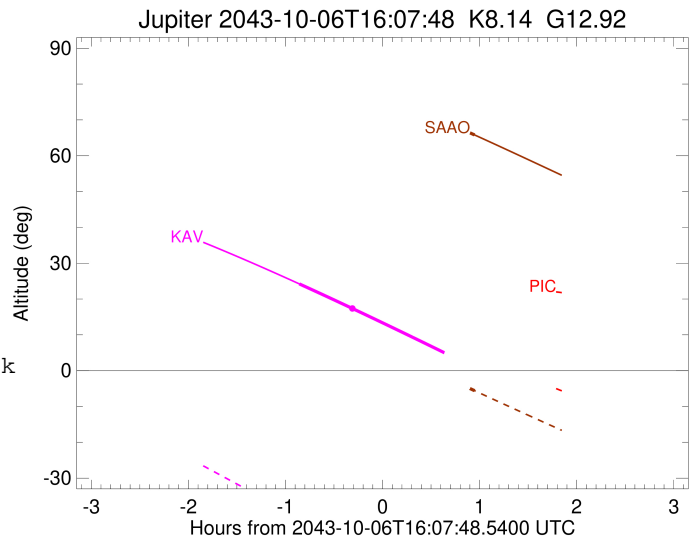
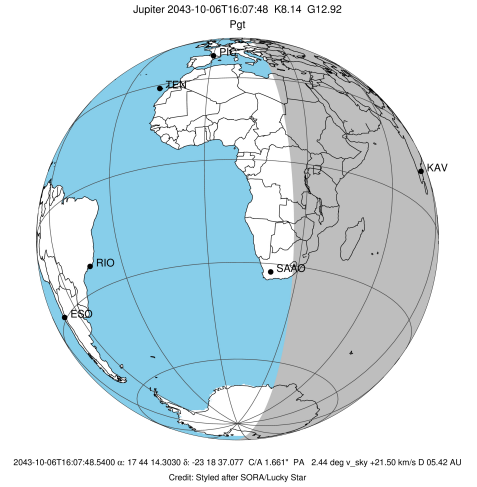


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-10-06T15:16:23.250	24.22	-41.05	71492.0	-4.52	-5.17
Jupiter	E	2043-10-06T17:07:49.593	0.16x	-67.85	71492.0	-2.23	-2.55

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-06T16:08:40.020
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : SAAO
Location             : So. Afr. Astro. Obs. (Sutherland)
Latitude (deg)       : -32.37953
E. Longitude (deg)   : 20.81070
Altitude (km)        : 1.768
Gaia source ID       : 4068811876020846720
2Mass ID (if available) : 17441431-2318370
ICRS Star Coord at Epoch: 17h 44m 14.30297s -23:18:37.07668s
RUWE (>1.4 is poor) : 0.81
K magnitude          : 8.143
G magnitude          : 12.921
RP magnitude         : 11.676
BP magnitude         : 14.629
DUPflag             : 0
Distance (au)        : 5.420
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 21.50
Sun-Target sep (deg) : 73.69
Sun-Moon sep (deg)   : 35.12
B (ring opening deg) : -2.18
PA of pole (deg)     : 0.86
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation ("): 1.903
C/A sky separation (km): 7480.8
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	2043-10-06T15:12:31.019	80.84	18.05x	71491.9	-7.59	-8.66
Jupiter	E	2043-10-06T17:04:43.157	65.80	-5.58	71492.0	-4.52	-5.16