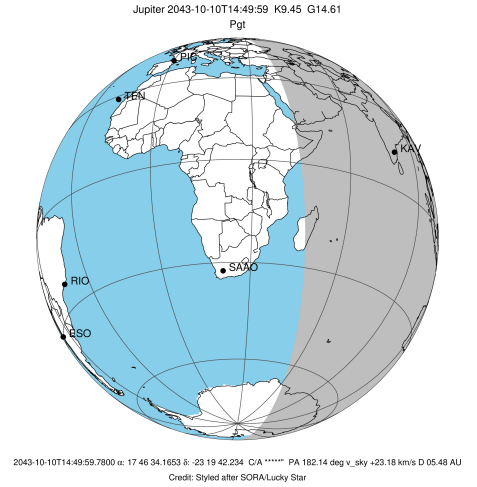
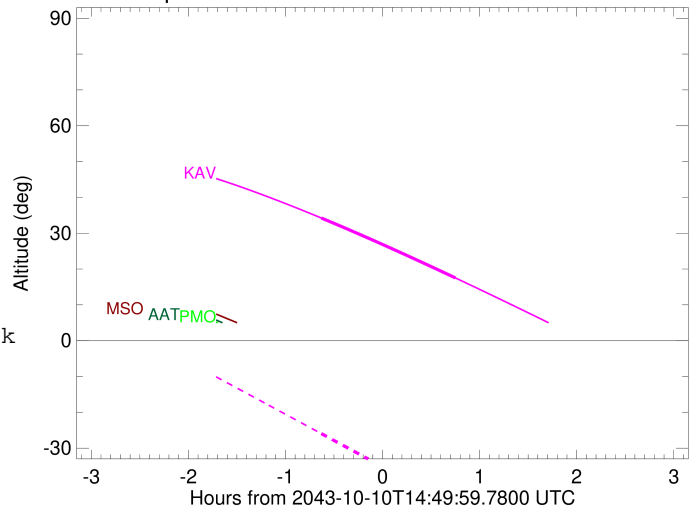



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-10T14:53:44.530
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      : 4068778650153561472
2Mass ID (if available) : 17463416-2319415
ICRS Star Coord at Epoch: 17h 46m 34.16535s -23:19:42.23395s
RUWE (>1.4 is poor) : 1.73
K magnitude          : 9.449
G magnitude          : 14.609
RP magnitude         : 13.187
BP magnitude         : 16.050
DUPflag             : 0
Distance (au)       : 5.478
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 23.18
Sun-Target sep (deg) : 70.33
Sun-Moon sep (deg)  : 12.83
B (ring opening deg) : -2.17
PA of pole (deg)    : 0.61
Pole direction: RA (deg): 268.05675
Dec (deg): 64.49731
C/A sky separation (" ) : 10.886
C/A sky separation (km) : 43248.0
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 2043-10-10T14:49:59 K9.45 G14.61



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	2043-10-10T14:12:15.099	34.22	-25.96	71489.8	35.98	39.61
Jupiter	E	2043-10-10T15:35:05.165	17.51	-46.18	71489.5	38.36	42.04