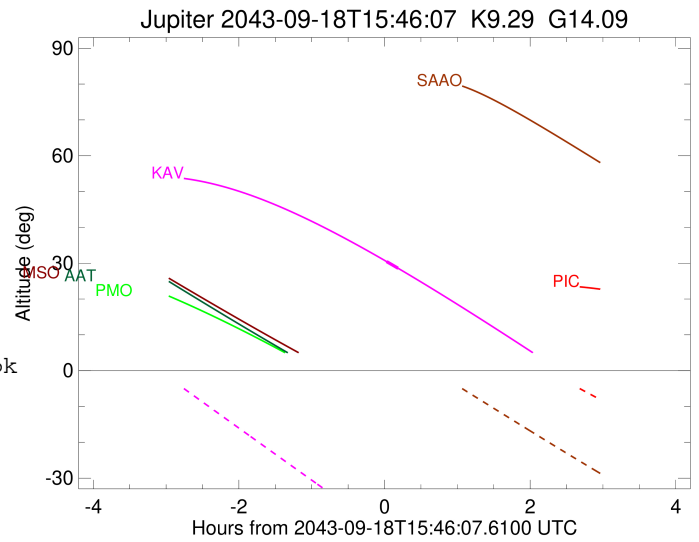
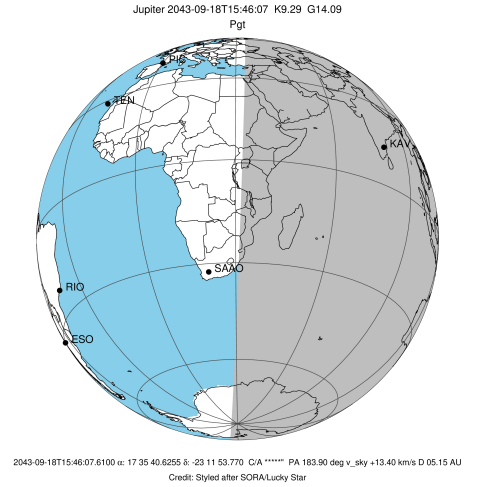




```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-09-18T15:52:36.750
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       : 4116637818706845696
2Mass ID (if available) : 17354063-2311534
ICRS Star Coord at Epoch: 17h 35m 40.62548s -23:11:53.77027s
RUWE (>1.4 is poor) : 1.51
K magnitude           : 9.294
G magnitude           : 14.087
RP magnitude         : 12.802
BP magnitude         : 15.620
DUPflag              : 0
Distance (au)        : 5.148
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 13.40
Sun-Target sep (deg) : 89.39
Sun-Moon sep (deg)   : 85.58
B (ring opening deg) : -2.25
PA of pole (deg)     : 1.78
Pole direction: RA (deg): 268.05673
Dec (deg): 64.49731
C/A sky separation ("): 19.119
C/A sky separation (km): 71388.6
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
    
```



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	2043-09-18T15:47:52.622	30.45	-45.28	71485.2	84.89	85.50
Jupiter	E	2043-09-18T15:57:20.621	28.58	-47.50	71485.1	87.37	87.68