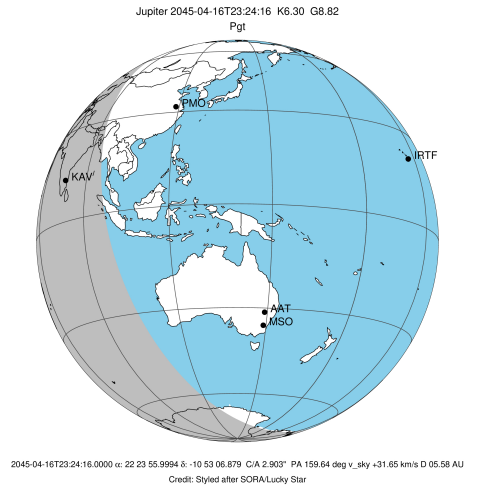
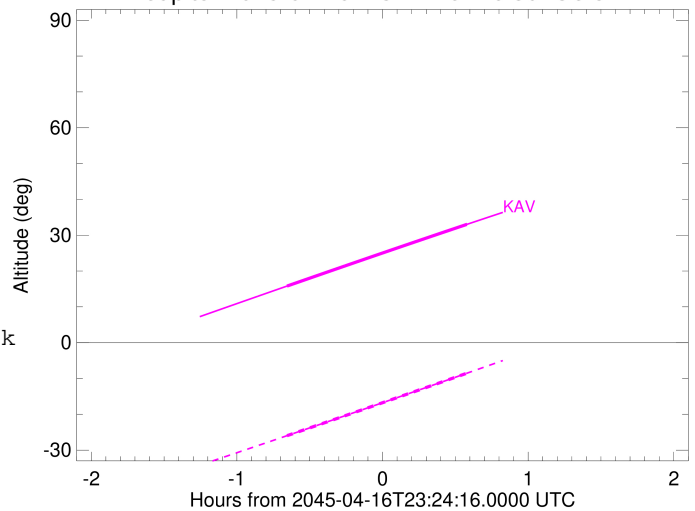



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2045-04-16T23:21:54.720
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       : 2614524988837532288
2Mass ID (if available) : 22235602-1053063
ICRS Star Coord at Epoch: 22h 23m 55.99937s -10:53:06.87893s
RUWE (>1.4 is poor) : 1.18
K magnitude           : 6.305
G magnitude           : 8.822
RP magnitude         : 8.076
BP magnitude         : 9.430
DUPflag              : 0
Distance (au)        : 5.579
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 31.65
Sun-Target sep (deg) : 52.97
Sun-Moon sep (deg)   : 49.78
B (ring opening deg) : 0.66
PA of pole (deg)     : -23.52
Pole direction: RA (deg): 268.05699
Dec (deg): 64.49725
C/A sky separation (") : 3.818
C/A sky separation (km) : 15447.5
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
    
```



Jupiter 2045-04-16T23:24:16 K6.30 G8.82



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	2045-04-16T22:44:55.449	15.80	-25.96	71492.0	9.30	10.61
Jupiter	E	2045-04-16T23:58:58.854	33.01	-8.54	71492.0	15.60	17.70