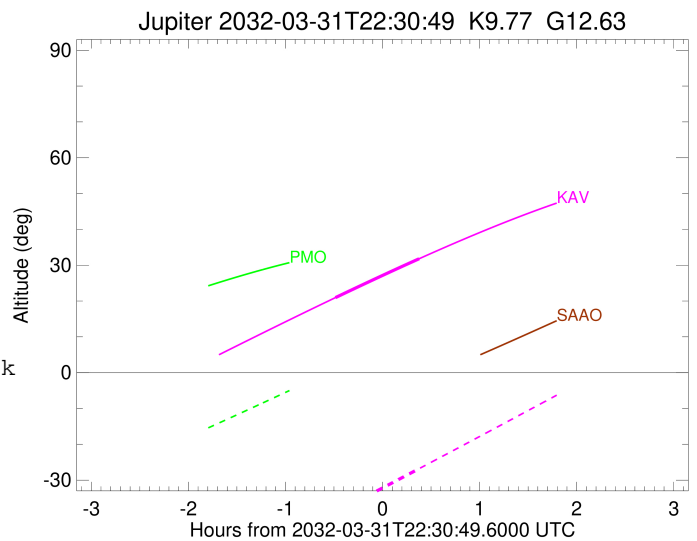
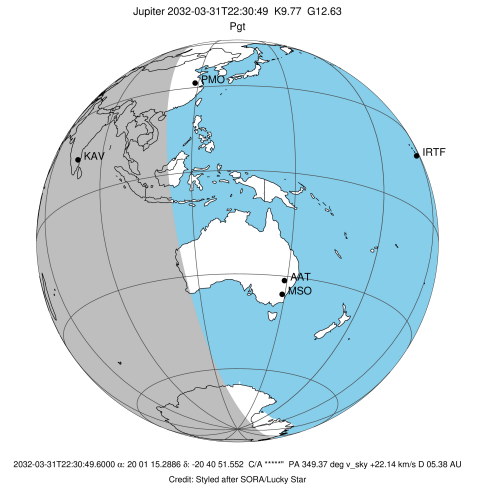




```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2032-03-31T22:27:34.600
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      : 6866078416110498816
2Mass ID (if available) : 20011528-2040513
ICRS Star Coord at Epoch: 20h 01m 15.28859s -20:40:51.55161s
RUWE (>1.4 is poor) : 0.94
K magnitude         : 9.769
G magnitude         : 12.627
RP magnitude        : 11.793
BP magnitude        : 13.366
DUPflag            : 0
Distance (au)       : 5.378
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 22.13
Sun-Target sep (deg) : 73.14
Sun-Moon sep (deg)  : 48.45
B (ring opening deg) : -1.25
PA of pole (deg)    : -13.29
Pole direction: RA (deg): 268.05669
Dec (deg): 64.49654
C/A sky separation (") : 16.131
C/A sky separation (km) : 62913.8
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	2032-03-31T22:01:44.168	20.95	-39.04	71490.2	-64.51	-67.23
Jupiter	E	2032-03-31T22:53:28.418	31.80	-26.79	71490.4	-58.78	-61.92