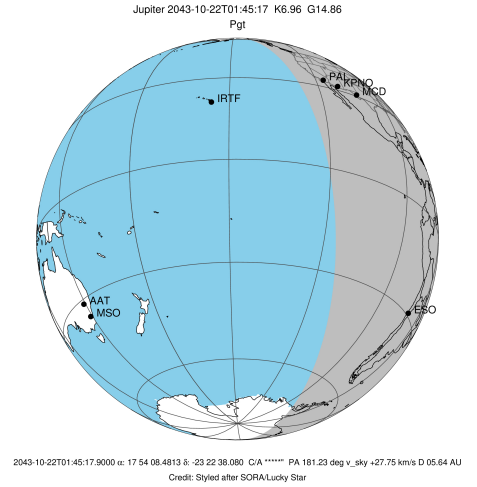


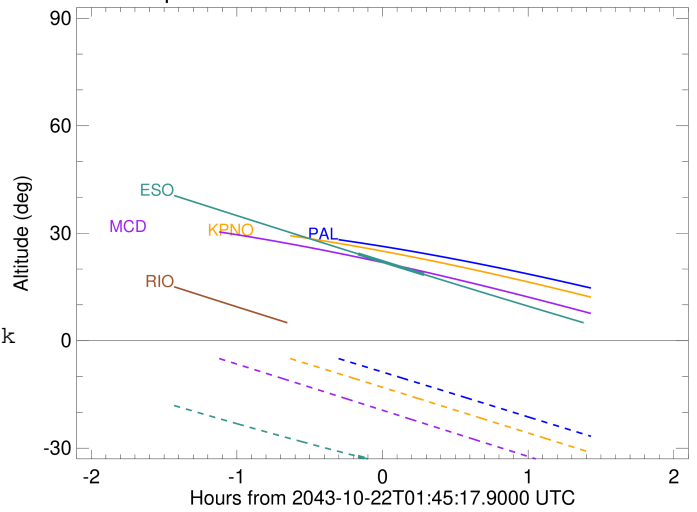


```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-22T01:48:49.220
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : ESO
Location             : European Southern Obs. (3.6m)
Latitude (deg)       : -29.26097
E. Longitude (deg)   : 289.26831
Altitude (km)        : 2.400
Gaia source ID       : 4067875749284046976
2Mass ID (if available) : 17540848-2322377
ICRS Star Coord at Epoch: 17h 54m 08.48133s -23:22:38.08044s
RUWE (>1.4 is poor) : 1.01
K magnitude          : 6.960
G magnitude          : 14.859
RP magnitude         : 13.218
BP magnitude         : 19.779
DUPflag             : 0
Distance (au)        : 5.637
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 27.75
Sun-Target sep (deg) : 60.71
Sun-Moon sep (deg)   : 168.65
B (ring opening deg) : -2.12
PA of pole (deg)     : -0.21
Pole direction: RA (deg): 268.05675
Dec (deg): 64.49731
C/A sky separation (") : 16.592
C/A sky separation (km) : 67835.6
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
    
```



Jupiter 2043-10-22T01:45:17 K6.96 G14.86



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	2043-10-22T01:35:13.478	24.22	-32.32	71486.5	70.38	72.56
Jupiter	E	2043-10-22T02:02:24.108	18.49	-36.83	71486.4	72.60	74.56