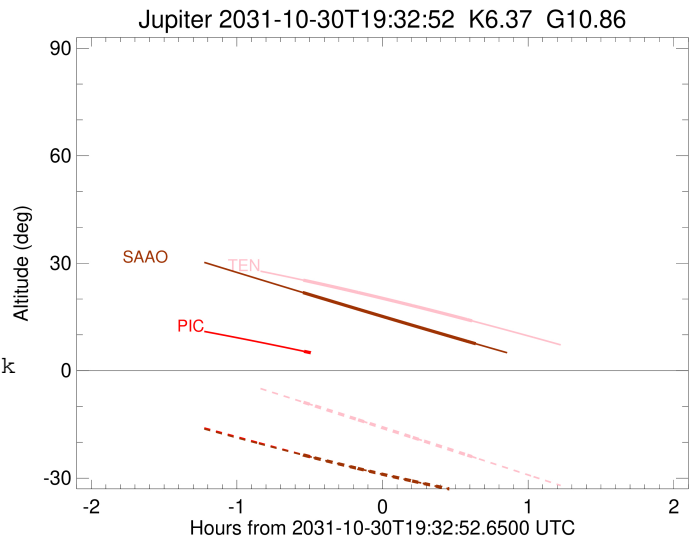
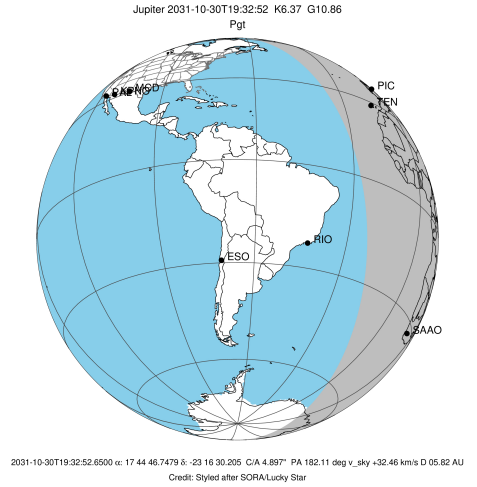



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2031-10-30T19:35:02.470
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : PIC
Location              : Pic du Midi
Latitude (deg)        : 42.93656
E. Longitude (deg)    : 0.14231
Altitude (km)         : 2.890
Gaia source ID        : 4068806348493560704
2Mass ID (if available) : 17444675-2316299
ICRS Star Coord at Epoch: 17h 44m 46.74787s -23:16:30.20492s
RUWE (>1.4 is poor) : 0.71
K magnitude           : 6.369
G magnitude           : 10.859
RP magnitude          : 9.675
BP magnitude          : 12.382
DUPflag              : 0
Distance (au)         : 5.818
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 32.46
Sun-Target sep (deg)  : 49.77
Sun-Moon sep (deg)    : 136.72
B (ring opening deg) : -2.22
PA of pole (deg)      : 0.80
Pole direction: RA (deg): 268.05681
Dec (deg): 64.49652
C/A sky separation (") : 6.057
C/A sky separation (km) : 25558.7
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
    
```

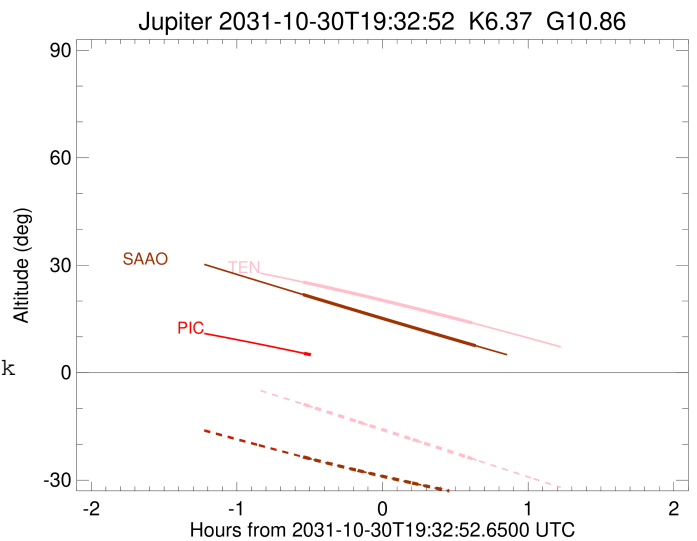
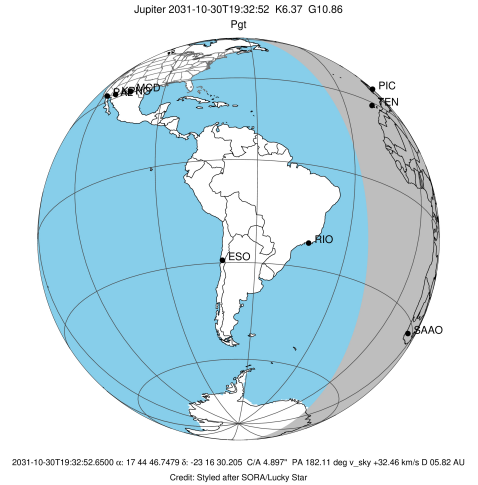


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2031-10-30T19:00:34.456	5.39	-23.55	71491.2	19.83	22.39
Jupiter	E	2031-10-30T20:09:26.875	-5.23x	-36.03	71491.1	22.01	24.78

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2031-10-30T19:35:02.750
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : TEN
Location              : Teide Obs./Tenerife
Latitude (deg)        : 28.30050
E. Longitude (deg)    : 343.48909
Altitude (km)         : 2.395
Gaia source ID        : 4068806348493560704
2Mass ID (if available) : 17444675-2316299
ICRS Star Coord at Epoch: 17h 44m 46.74787s -23:16:30.20492s
RUWE (>1.4 is poor) : 0.71
K magnitude           : 6.369
G magnitude           : 10.859
RP magnitude          : 9.675
BP magnitude          : 12.382
DUPflag              : 0
Distance (au)         : 5.818
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 32.46
Sun-Target sep (deg) : 49.77
Sun-Moon sep (deg)    : 136.94
B (ring opening deg) : -2.22
PA of pole (deg)      : 0.80
Pole direction: RA (deg): 268.05681
Dec (deg): 64.49652
C/A sky separation (") : 5.935
C/A sky separation (km) : 25043.3
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	2031-10-30T19:00:20.366	25.25	-8.82	71491.3	19.37	21.88
Jupiter	E	2031-10-30T20:09:41.482	13.92	-23.98	71491.1	21.57	24.30

