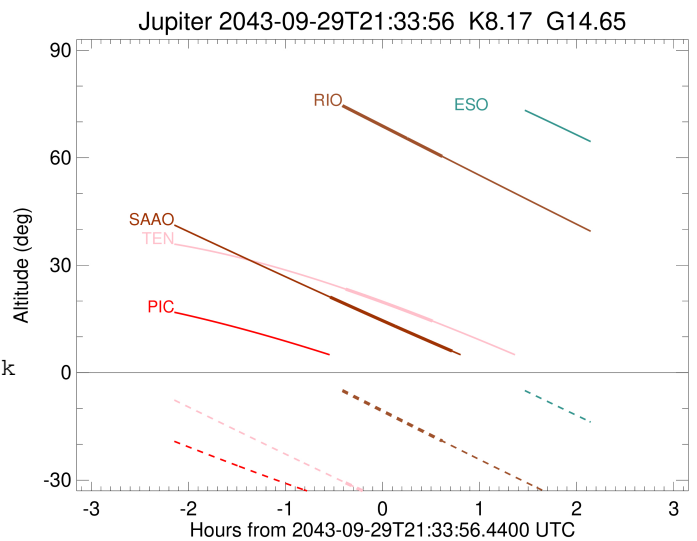
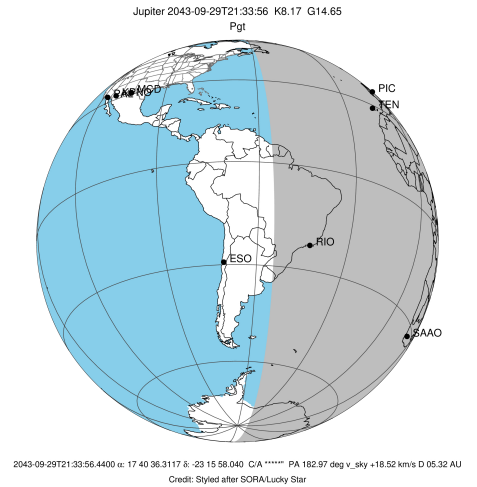




```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-09-29T21:38:02.530
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      : 4116490003176567680
2Mass ID (if available) : 17403631-2315578
ICRS Star Coord at Epoch: 17h 40m 36.31166s -23:15:58.03976s
RUWE (>1.4 is poor) : 0.92
K magnitude          : 8.167
G magnitude          : 14.645
RP magnitude         : 13.093
BP magnitude         : 18.189
DUPflag             : 0
Distance (au)       : 5.319
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 18.52
Sun-Target sep (deg) : 79.52
Sun-Moon sep (deg)  : 117.54
B (ring opening deg) : -2.21
PA of pole (deg)    : 1.25
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (") : 16.894
C/A sky separation (km) : 65177.1
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
    
```

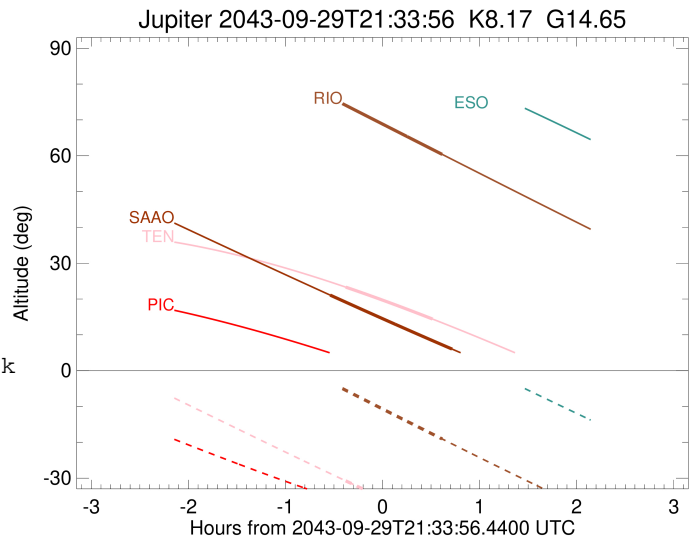
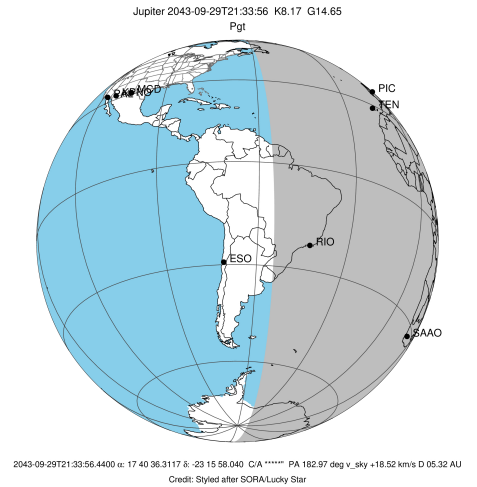


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-09-29T21:11:10.541	23.32	-30.75	71486.6	64.27	67.01
Jupiter	E	2043-09-29T22:04:50.315	14.42	-41.91	71486.4	66.99	69.49

```

target                : Jupiter
target radius (km)    : 71492.00
C/A epoch              : 2043-09-29T21:36:12.520
Event type             : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code          : RIO
Location               : Rio de Janeiro
Latitude (deg)         : -22.89506
E. Longitude (deg)    : 316.77708
Altitude (km)         : 0.033
Gaia source ID        : 4116490003176567680
2Mass ID (if available) : 17403631-2315578
ICRS Star Coord at Epoch: 17h 40m 36.31166s -23:15:58.03976s
RUWE (>1.4 is poor)  : 0.92
K magnitude            : 8.167
G magnitude            : 14.645
RP magnitude           : 13.093
BP magnitude           : 18.189
DUPflag               : 0
Distance (au)         : 5.319
f0 (km)                : 0.00
g0 (km)                : 0.00
skyplane vel. (km/s)  : 18.52
Sun-Target sep (deg)  : 79.52
Sun-Moon sep (deg)    : 118.15
B (ring opening deg)  : -2.21
PA of pole (deg)      : 1.25
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (") : 15.755
C/A sky separation (km) : 60784.0
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
    
```

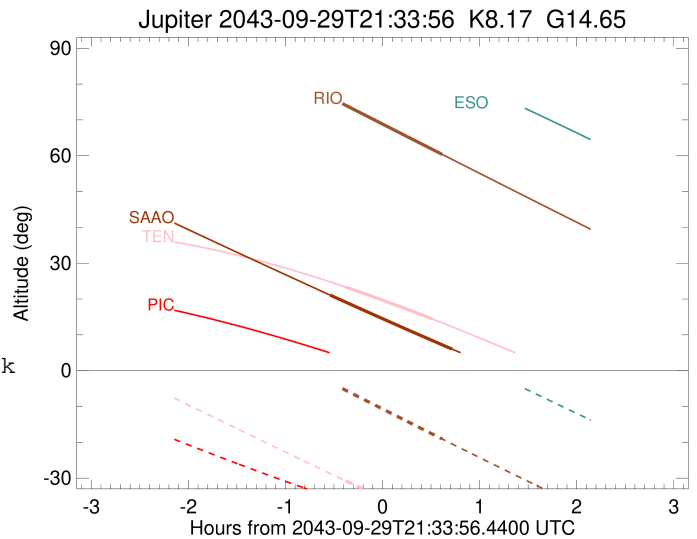
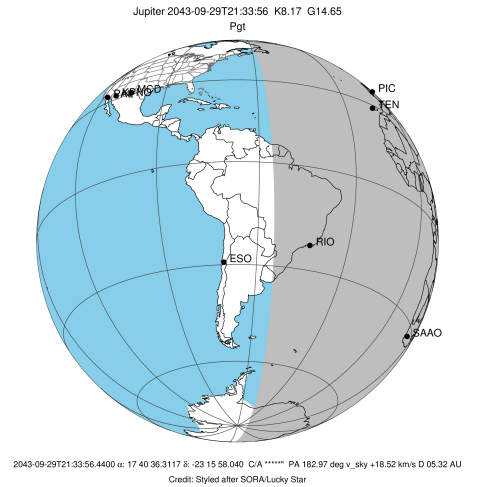


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-09-29T21:01:32.069	76.29	-3.25x	71487.4	56.57	59.85
Jupiter	E	2043-09-29T22:10:48.634	60.37	-19.06	71487.1	59.70	62.78

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-09-29T21:39:21.230
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : SAAO
Location              : So. Afr. Astro. Obs. (Sutherland)
Latitude (deg)        : -32.37953
E. Longitude (deg)    : 20.81070
Altitude (km)         : 1.768
Gaia source ID        : 4116490003176567680
2Mass ID (if available) : 17403631-2315578
ICRS Star Coord at Epoch: 17h 40m 36.31166s -23:15:58.03976s
RUWE (>1.4 is poor) : 0.92
K magnitude           : 8.167
G magnitude           : 14.645
RP magnitude          : 13.093
BP magnitude          : 18.189
DUPflag              : 0
Distance (au)         : 5.320
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 18.52
Sun-Target sep (deg)  : 79.52
Sun-Moon sep (deg)    : 117.36
B (ring opening deg) : -2.21
PA of pole (deg)     : 1.25
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (") : 15.035
C/A sky separation (km) : 58006.9
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	2043-09-29T21:01:37.868	21.08	-49.73	71487.8	52.93	56.40
Jupiter	E	2043-09-29T22:16:54.858	6.03	-55.07	71487.5	55.41	58.76