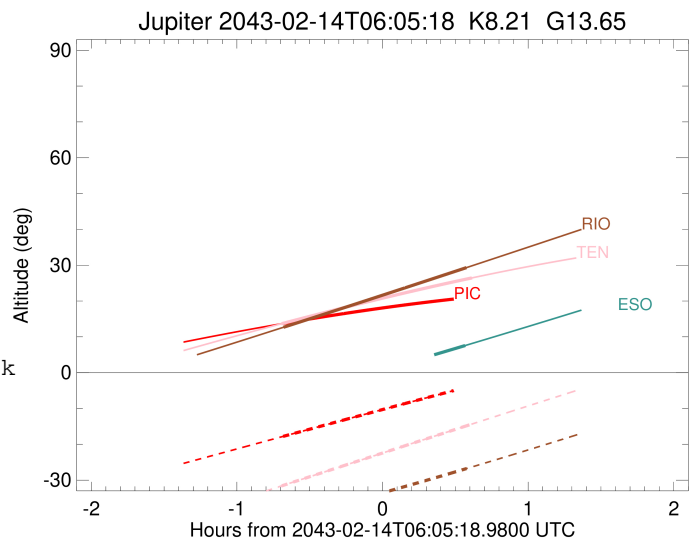
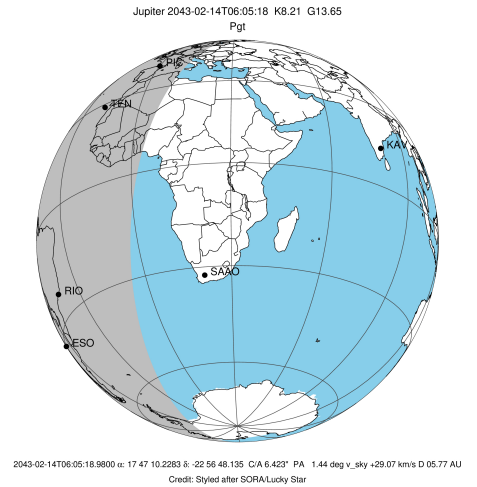



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-02-14T06:03:51.380
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        : 4068932998469800832
2Mass ID (if available) : 17471022-2256481
ICRS Star Coord at Epoch: 17h 47m 10.22834s -22:56:48.13480s
RUWE (>1.4 is poor) : 0.96
K magnitude           : 8.205
G magnitude           : 13.648
RP magnitude          : 12.241
BP magnitude          : 16.100
DUPflag              : 0
Distance (au)         : 5.769
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 29.07
Sun-Target sep (deg)  : 57.79
Sun-Moon sep (deg)   : 115.51
B (ring opening deg) : -2.55
PA of pole (deg)     : 0.54
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (") : 5.105
C/A sky separation (km) : 21357.6
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
    
```

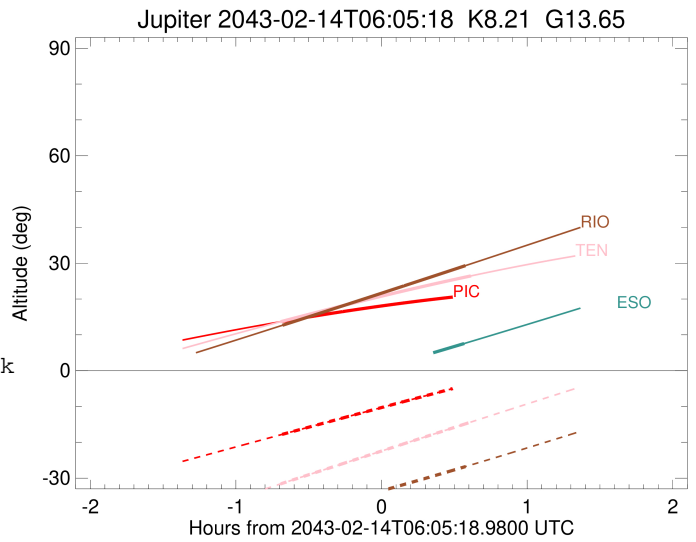
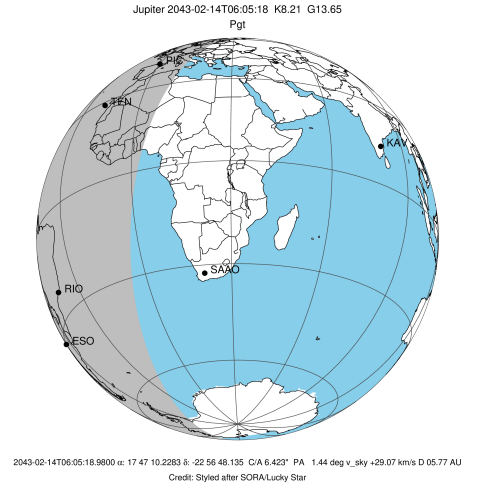


x: target alt < 5.0 deg or sun > -5.0 deg

| Target | I/E | UTC | alt | alt-sun | radius | lat-geo | lat-geodetic |
|---------|-----|-------------------------|-------|---------|---------|---------|--------------|
| Jupiter | I | 2043-02-14T05:24:23.049 | 13.73 | -17.78 | 71491.1 | -18.43 | -20.84 |
| Jupiter | E | 2043-02-14T06:43:23.321 | 21.17 | -3.44x | 71491.3 | -16.34 | -18.52 |

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-14T06:02:53.400
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      : 4068932998469800832
2Mass ID (if available) : 17471022-2256481
ICRS Star Coord at Epoch: 17h 47m 10.22834s -22:56:48.13480s
RUWE (>1.4 is poor) : 0.96
K magnitude          : 8.205
G magnitude          : 13.648
RP magnitude         : 12.241
BP magnitude         : 16.100
DUPflag             : 0
Distance (au)        : 5.769
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 29.07
Sun-Target sep (deg) : 57.79
Sun-Moon sep (deg)  : 115.44
B (ring opening deg) : -2.55
PA of pole (deg)    : 0.54
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (") : 5.429
C/A sky separation (km) : 22714.6
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
    
```

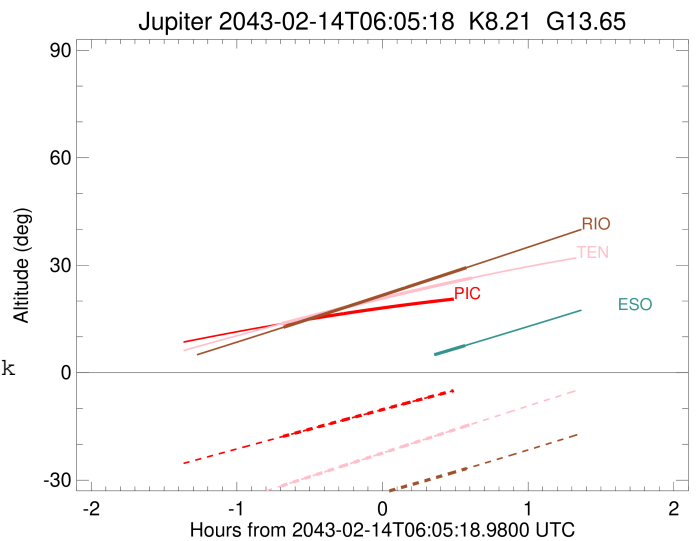
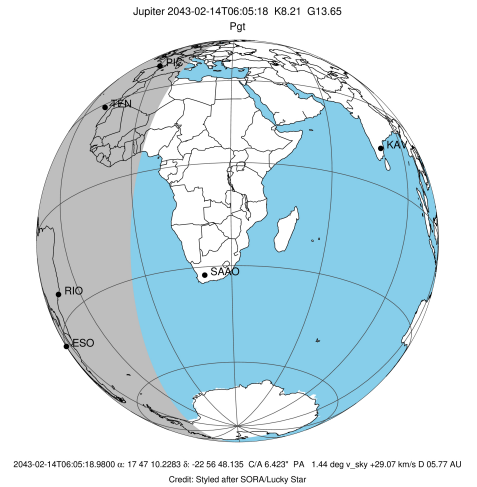


x: target alt < 5.0 deg or sun > -5.0 deg

| Target | I/E | UTC | alt | alt-sun | radius | lat-geo | lat-geodetic |
|---------|-----|-------------------------|-------|---------|---------|---------|--------------|
| Jupiter | I | 2043-02-14T05:23:42.947 | 13.66 | -31.61 | 71491.0 | -19.67 | -22.21 |
| Jupiter | E | 2043-02-14T06:42:09.184 | 26.45 | -14.35 | 71491.2 | -17.38 | -19.68 |

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-14T06:02:09.650
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       : 4068932998469800832
2Mass ID (if available) : 17471022-2256481
ICRS Star Coord at Epoch: 17h 47m 10.22834s -22:56:48.13480s
RUWE (>1.4 is poor) : 0.96
K magnitude          : 8.205
G magnitude          : 13.648
RP magnitude         : 12.241
BP magnitude         : 16.100
DUPflag             : 0
Distance (au)        : 5.769
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 29.07
Sun-Target sep (deg) : 57.79
Sun-Moon sep (deg)   : 115.35
B (ring opening deg) : -2.55
PA of pole (deg)     : 0.54
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (") : 6.851
C/A sky separation (km) : 28663.3
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
    
```

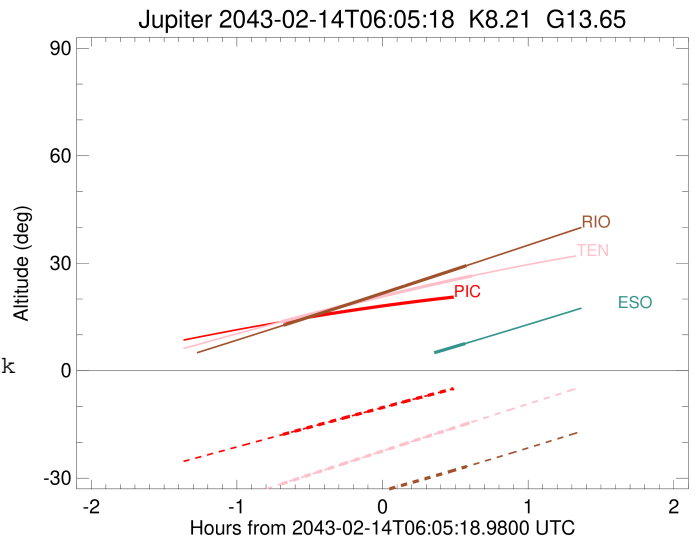
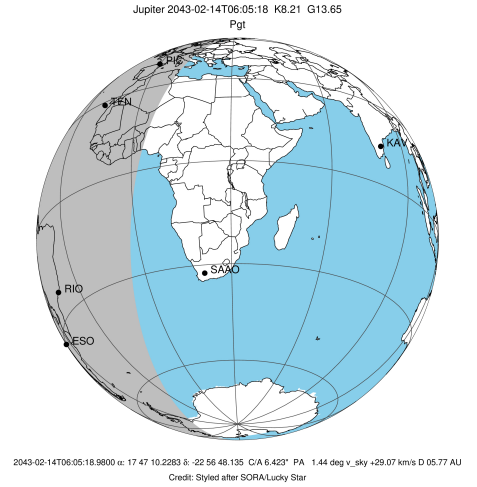


x: target alt < 5.0 deg or sun > -5.0 deg

| Target | I/E | UTC | alt | alt-sun | radius | lat-geo | lat-geodetic |
|---------|-----|-------------------------|-------|---------|---------|---------|--------------|
| Jupiter | I | 2043-02-14T05:24:32.082 | 12.67 | -40.84 | 71490.4 | -24.83 | -27.85 |
| Jupiter | E | 2043-02-14T06:39:53.435 | 29.31 | -26.78 | 71490.7 | -22.40 | -25.21 |

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-14T06:02:20.420
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      : 4068932998469800832
2Mass ID (if available) : 17471022-2256481
ICRS Star Coord at Epoch: 17h 47m 10.22834s -22:56:48.13480s
RUWE (>1.4 is poor) : 0.96
K magnitude          : 8.205
G magnitude          : 13.648
RP magnitude         : 12.241
BP magnitude         : 16.100
DUPflag             : 0
Distance (au)       : 5.769
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 29.07
Sun-Target sep (deg) : 57.79
Sun-Moon sep (deg)  : 115.05
B (ring opening deg) : -2.55
PA of pole (deg)    : 0.54
Pole direction: RA (deg): 268.05661
Dec (deg): 64.49732
C/A sky separation (") : 7.242
C/A sky separation (km) : 30302.0
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 | 2043-02-14T05:25:23.088 | -6.91x | -47.30 | 71490.3 | -26.24 | -29.36 |
| Jupiter | E | 2043-02-14T06:39:23.432 | 7.57 | -41.15 | 71490.5 | -23.85 | -26.79 |