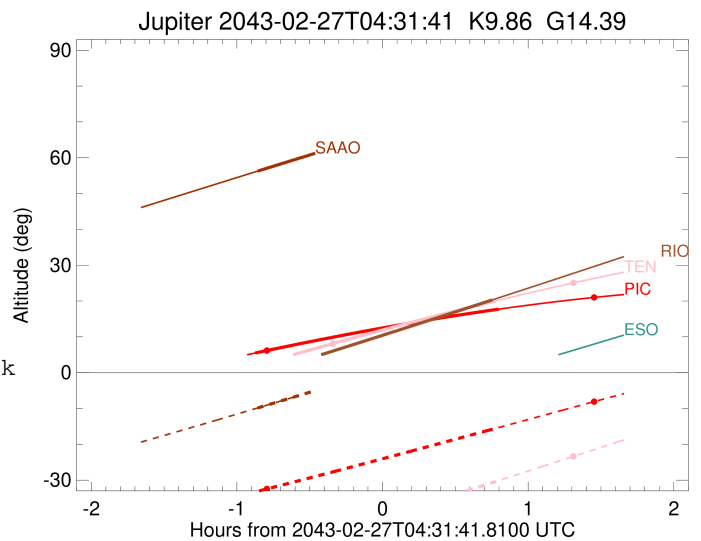
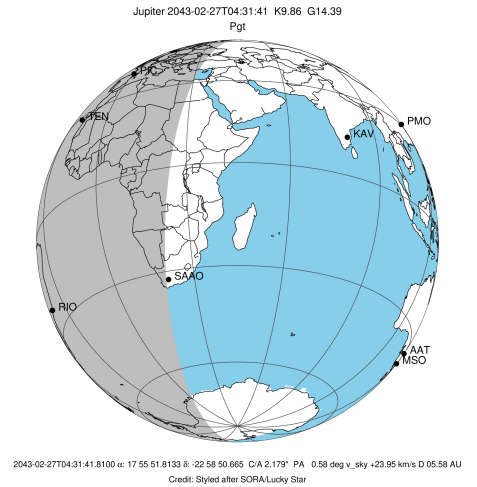



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-27T04:29:22.530
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     : 4069412763465307136
2Mass ID (if available) : 17555180-2258506
ICRS Star Coord at Epoch: 17h 55m 51.81326s -22:58:50.66546s
RUWE (>1.4 is poor) : 0.90
K magnitude        : 9.863
G magnitude        : 14.394
RP magnitude       : 13.199
BP magnitude       : 15.948
DUPflag           : 0
Distance (au)     : 5.581
f0 (km)           : 0.00
g0 (km)           : 0.00
skyplane vel. (km/s) : 23.95
Sun-Target sep (deg) : 68.82
Sun-Moon sep (deg) : 74.13
B (ring opening deg) : -2.52
PA of pole (deg)   : -0.39
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 0.873
C/A sky separation (km) : 3531.9
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
    
```

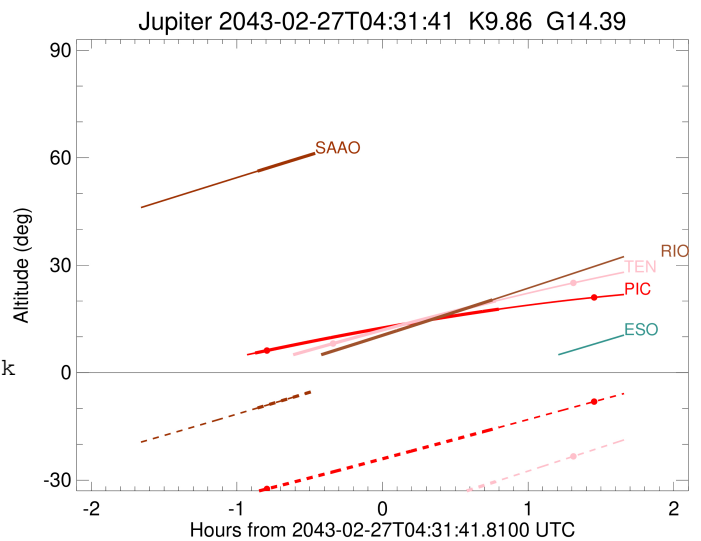
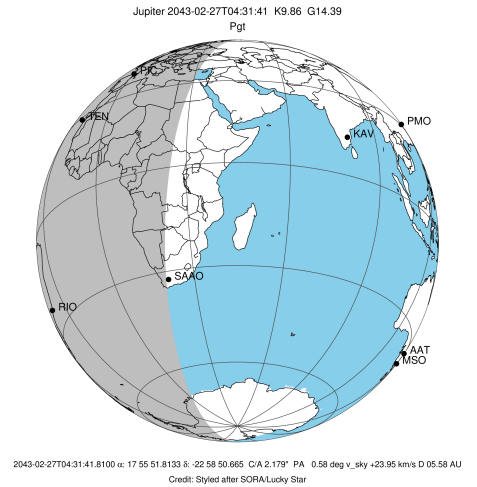


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-27T03:39:15.261	5.49	-33.27	71492.0	-4.06	-4.64
Jupiter	E	2043-02-27T05:19:38.666	17.73	-15.29	71492.0	-1.65	-1.89

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-27T04:28:14.630
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       : 4069412763465307136
2Mass ID (if available) : 17555180-2258506
ICRS Star Coord at Epoch: 17h 55m 51.81326s -22:58:50.66546s
RUWE (>1.4 is poor) : 0.90
K magnitude           : 9.863
G magnitude           : 14.394
RP magnitude         : 13.199
BP magnitude         : 15.948
DUPflag              : 0
Distance (au)        : 5.581
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 23.95
Sun-Target sep (deg) : 68.82
Sun-Moon sep (deg)   : 74.05
B (ring opening deg) : -2.52
PA of pole (deg)     : -0.39
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 1.239
C/A sky separation (km) : 5015.4
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
    
```

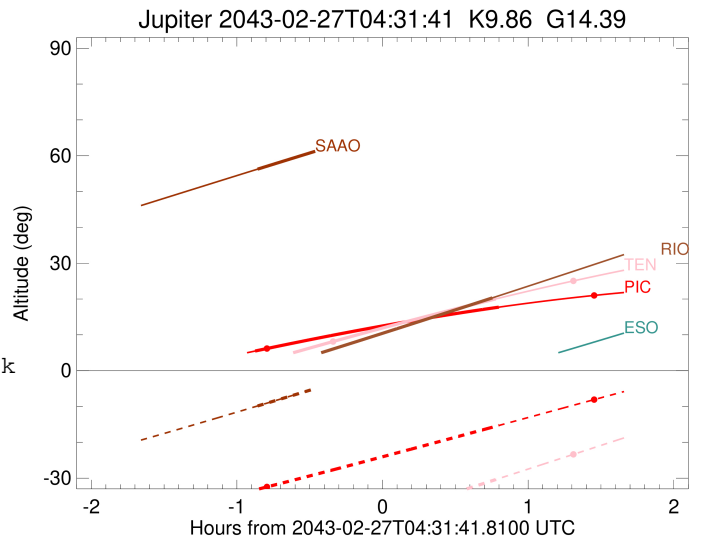
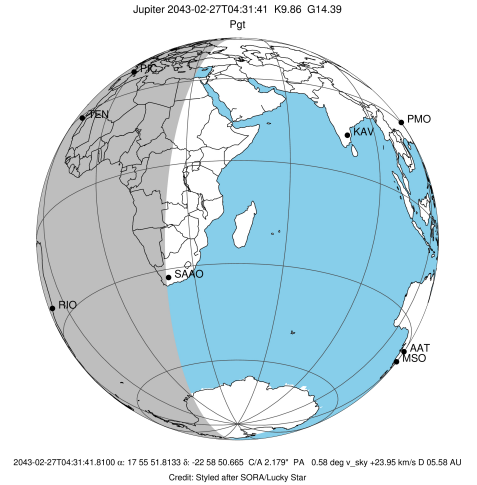


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-27T03:38:18.943	1.78x	-51.66	71491.9	-5.35	-6.11
Jupiter	E	2043-02-27T05:18:22.409	20.03	-30.39	71492.0	-2.72	-3.12

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-02-27T04:27:40.100
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       : 4069412763465307136
2Mass ID (if available) : 17555180-2258506
ICRS Star Coord at Epoch: 17h 55m 51.81326s -22:58:50.66546s
RUWE (>1.4 is poor) : 0.90
K magnitude           : 9.863
G magnitude           : 14.394
RP magnitude         : 13.199
BP magnitude         : 15.948
DUPflag              : 0
Distance (au)        : 5.581
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 23.95
Sun-Target sep (deg) : 68.82
Sun-Moon sep (deg)   : 73.99
B (ring opening deg) : -2.52
PA of pole (deg)     : -0.39
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 2.729
C/A sky separation (km) : 11044.6
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
    
```

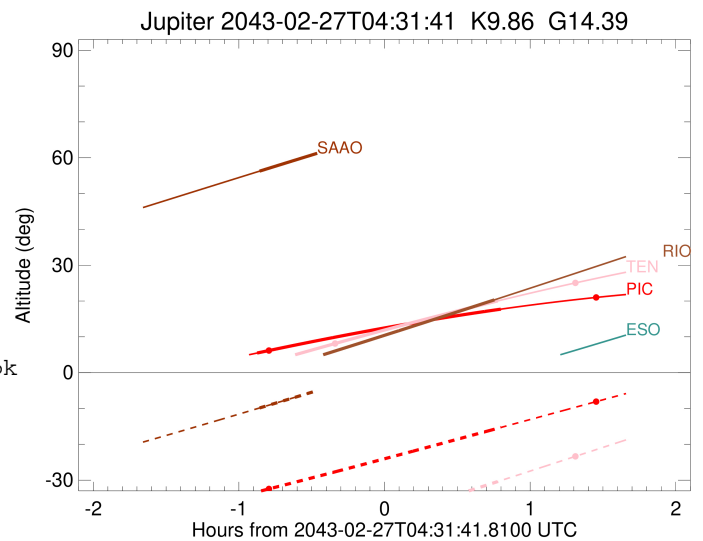
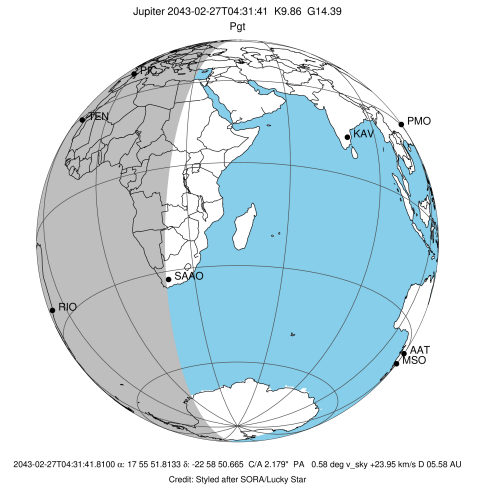


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-27T03:38:36.412	-0.86x	-57.81	71491.7	-10.25	-11.68
Jupiter	E	2043-02-27T05:16:57.091	20.31	-45.24	71491.9	-7.51	-8.57

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-27T04:30:10.450
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       : 4069412763465307136
2Mass ID (if available) : 17555180-2258506
ICRS Star Coord at Epoch: 17h 55m 51.81326s -22:58:50.66546s
RUWE (>1.4 is poor) : 0.90
K magnitude          : 9.863
G magnitude          : 14.394
RP magnitude         : 13.199
BP magnitude         : 15.948
DUPflag             : 0
Distance (au)        : 5.581
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 23.95
Sun-Target sep (deg) : 68.82
Sun-Moon sep (deg)   : 74.79
B (ring opening deg) : -2.52
PA of pole (deg)     : -0.39
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation ("): 2.471
C/A sky separation (km): 10002.3
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	2043-02-27T03:40:13.382	56.25	-9.85	71491.8	-9.20	-10.49
Jupiter	E	2043-02-27T05:20:14.138	76.09	10.94x	71491.9	-6.94	-7.93