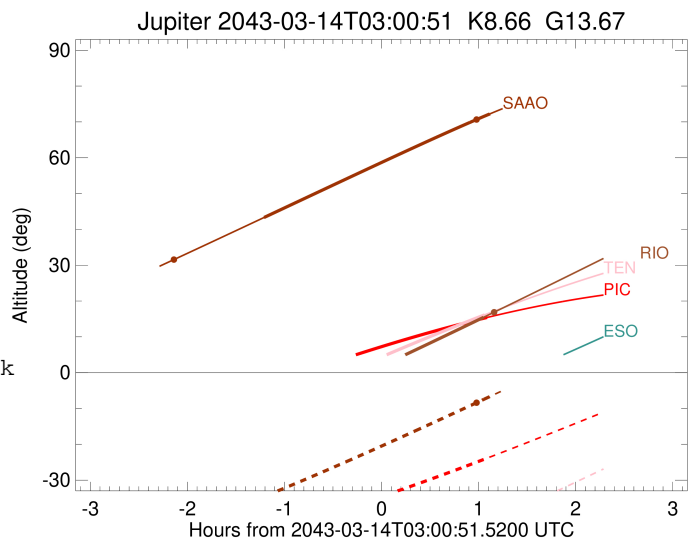
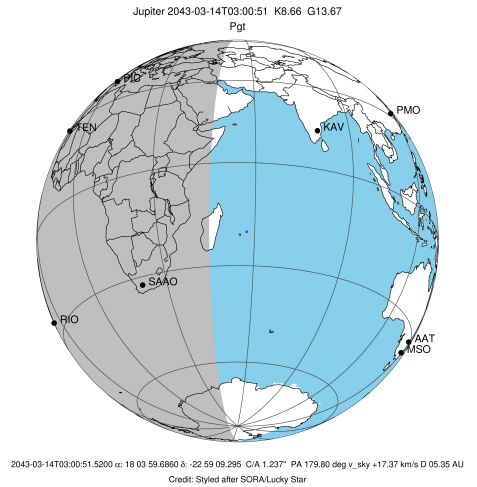



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-03-14T02:57:08.000
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      : 4069260412361552640
2Mass ID (if available) : 18035967-2259091
ICRS Star Coord at Epoch: 18h 03m 59.68601s -22:59:09.29461s
RUWE (>1.4 is poor) : 0.99
K magnitude          : 8.660
G magnitude          : 13.669
RP magnitude         : 12.441
BP magnitude         : 15.321
DUPflag             : 0
Distance (au)       : 5.347
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 17.36
Sun-Target sep (deg) : 81.91
Sun-Moon sep (deg)   : 119.33
B (ring opening deg) : -2.49
PA of pole (deg)     : -1.27
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 2.547
C/A sky separation (km) : 9879.7
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
    
```

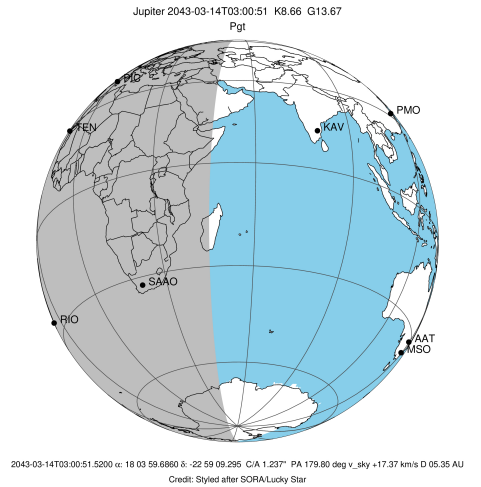


x: target alt < 5.0 deg or sun > -5.0 deg

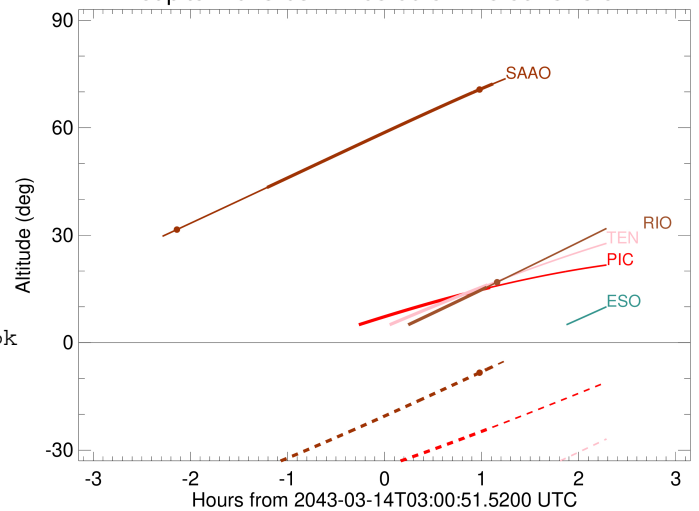
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T01:48:38.156	-3.69x	-44.11	71491.9	6.47	7.39
Jupiter	E	2043-03-14T04:06:03.968	15.40	-23.87	71491.8	9.32	10.63

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-03-14T02:55:39.970
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      : 4069260412361552640
2Mass ID (if available) : 18035967-2259091
ICRS Star Coord at Epoch: 18h 03m 59.68601s -22:59:09.29461s
RUWE (>1.4 is poor) : 0.99
K magnitude         : 8.660
G magnitude         : 13.669
RP magnitude        : 12.441
BP magnitude        : 15.321
DUPflag            : 0
Distance (au)       : 5.347
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 17.36
Sun-Target sep (deg) : 81.91
Sun-Moon sep (deg)  : 119.17
B (ring opening deg) : -2.49
PA of pole (deg)    : -1.27
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 2.141
C/A sky separation (km) : 8302.8
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 2043-03-14T03:00:51 K8.66 G13.67

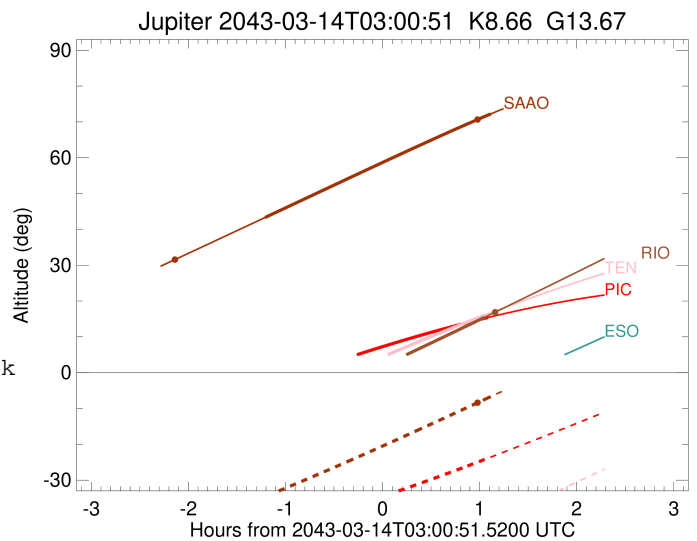
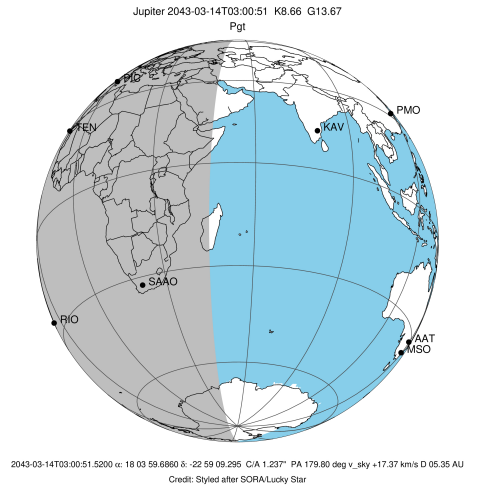


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T01:47:19.004	-10.37x	-63.37	71491.9	5.07	5.79
Jupiter	E	2043-03-14T04:04:34.744	16.14	-42.26	71491.8	8.21	9.36

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T02:55:15.130
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        : 4069260412361552640
2Mass ID (if available) : 18035967-2259091
ICRS Star Coord at Epoch: 18h 03m 59.68601s -22:59:09.29461s
RUWE (>1.4 is poor)  : 0.99
K magnitude           : 8.660
G magnitude           : 13.669
RP magnitude          : 12.441
BP magnitude          : 15.321
DUPflag              : 0
Distance (au)         : 5.347
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 17.36
Sun-Target sep (deg)  : 81.91
Sun-Moon sep (deg)    : 119.07
B (ring opening deg) : -2.49
PA of pole (deg)     : -1.27
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 0.577
C/A sky separation (km) : 2235.9
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
    
```

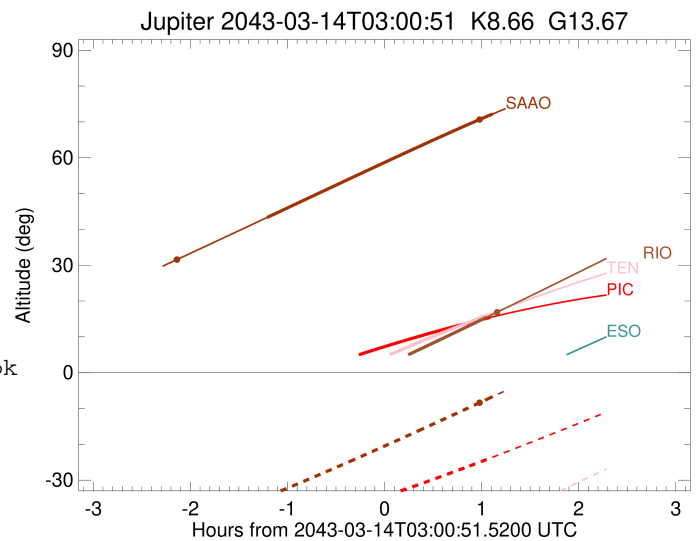
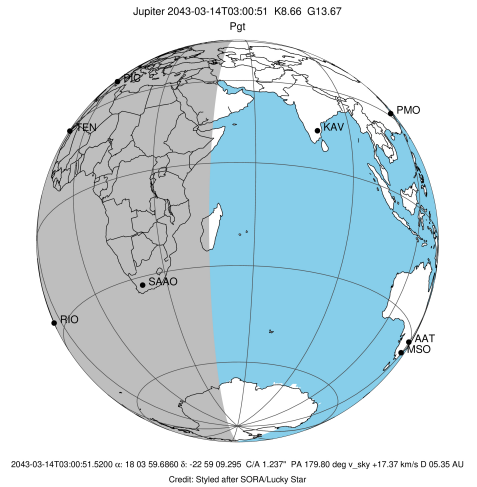


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T01:47:14.261	-13.13x	-58.73	71492.0	0.20	0.22
Jupiter	E	2043-03-14T04:03:51.256	15.43	-60.52	71492.0	3.41	3.90

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T02:57:53.010
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       : 4069260412361552640
2Mass ID (if available) : 18035967-2259091
ICRS Star Coord at Epoch: 18h 03m 59.68601s -22:59:09.29461s
RUWE (>1.4 is poor) : 0.99
K magnitude           : 8.660
G magnitude           : 13.669
RP magnitude          : 12.441
BP magnitude          : 15.321
DUPflag              : 0
Distance (au)        : 5.347
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 17.36
Sun-Target sep (deg) : 81.91
Sun-Moon sep (deg)   : 120.00
B (ring opening deg) : -2.49
PA of pole (deg)     : -1.27
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 0.893
C/A sky separation (km) : 3463.3
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	2043-03-14T01:48:15.288	43.31	-34.57	71492.0	1.36	1.55
Jupiter	E	2043-03-14T04:07:53.528	72.24	-6.65	71492.0	4.06	4.64