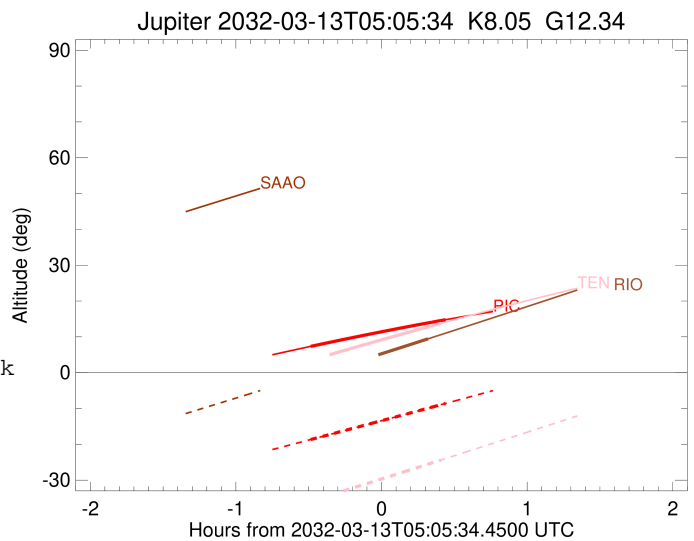
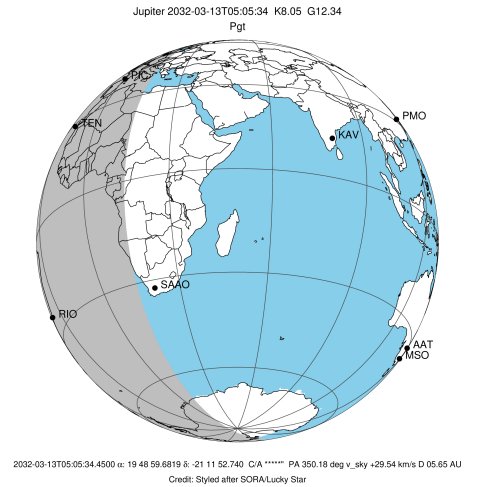



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2032-03-13T05:04:08.040
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        : 6865473852214897792
2Mass ID (if available) : 19485969-2111525
ICRS Star Coord at Epoch: 19h 48m 59.68194s -21:11:52.73959s
RUWE (>1.4 is poor) : 1.26
K magnitude           : 8.053
G magnitude           : 12.341
RP magnitude          : 11.113
BP magnitude          : 13.914
DUPflag              : 0
Distance (au)         : 5.650
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 29.54
Sun-Target sep (deg) : 57.47
Sun-Moon sep (deg)   : 78.66
B (ring opening deg) : -1.38
PA of pole (deg)     : -12.13
Pole direction: RA (deg): 268.05671
Dec (deg): 64.49654
C/A sky separation (") : 12.757
C/A sky separation (km) : 52275.7
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
    
```

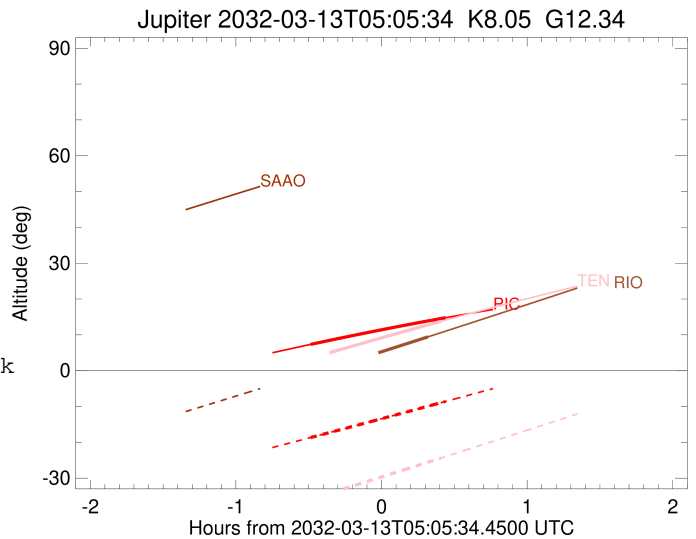
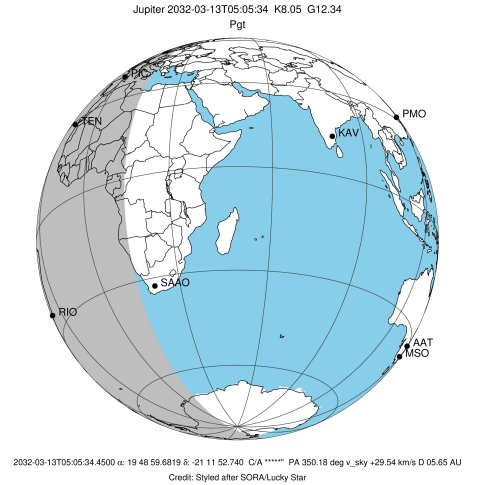


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2032-03-13T04:36:25.645	7.34	-18.66	71490.5	-49.40	-53.00
Jupiter	E	2032-03-13T05:31:52.583	14.77	-8.61	71490.7	-44.58	-48.28

```

target                : Jupiter
target radius (km)    : 71492.00
C/A epoch              : 2032-03-13T05:03:09.510
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         : 6865473852214897792
2Mass ID (if available) : 19485969-2111525
ICRS Star Coord at Epoch: 19h 48m 59.68194s -21:11:52.73959s
RUWE (>1.4 is poor)  : 1.26
K magnitude             : 8.053
G magnitude             : 12.341
RP magnitude           : 11.113
BP magnitude           : 13.914
DUPflag                : 0
Distance (au)          : 5.650
f0 (km)                : 0.00
g0 (km)                : 0.00
skyplane vel. (km/s)   : 29.54
Sun-Target sep (deg)   : 57.47
Sun-Moon sep (deg)     : 78.68
B (ring opening deg)   : -1.38
PA of pole (deg)       : -12.13
Pole direction: RA (deg): 268.05671
Dec (deg): 64.49654
C/A sky separation (") : 13.055
C/A sky separation (km) : 53497.3
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
    
```

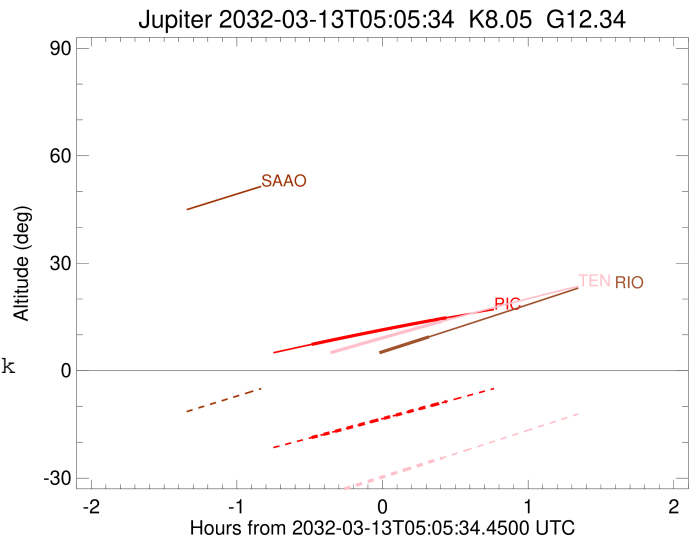
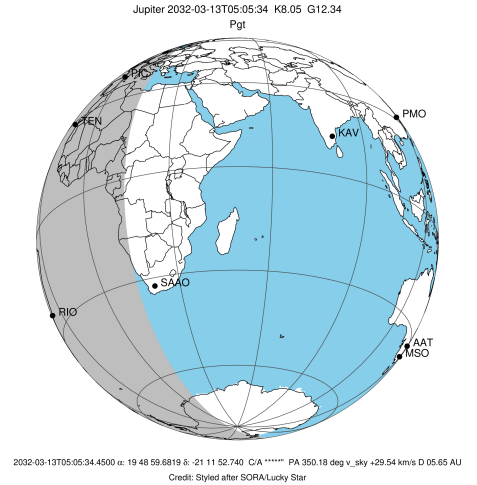


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2032-03-13T04:36:16.051	3.45x	-35.87	71490.4	-50.95	-54.50
Jupiter	E	2032-03-13T05:30:05.732	13.77	-24.38	71490.6	-45.93	-49.62

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2032-03-13T05:02:15.210
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      : 6865473852214897792
2Mass ID (if available) : 19485969-2111525
ICRS Star Coord at Epoch: 19h 48m 59.68194s -21:11:52.73959s
RUWE (>1.4 is poor) : 1.26
K magnitude         : 8.053
G magnitude         : 12.341
RP magnitude        : 11.113
BP magnitude        : 13.914
DUPflag            : 0
Distance (au)       : 5.650
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 29.54
Sun-Target sep (deg) : 57.47
Sun-Moon sep (deg)  : 78.68
B (ring opening deg) : -1.38
PA of pole (deg)    : -12.13
Pole direction: RA (deg): 268.05671
Dec (deg): 64.49654
C/A sky separation (") : 14.478
C/A sky separation (km) : 59329.2
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	2032-03-13T04:39:46.403	-0.25x	-55.16	71490.1	-58.68	-61.83
Jupiter	E	2032-03-13T05:24:46.214	9.45	-46.93	71490.3	-53.46	-56.91