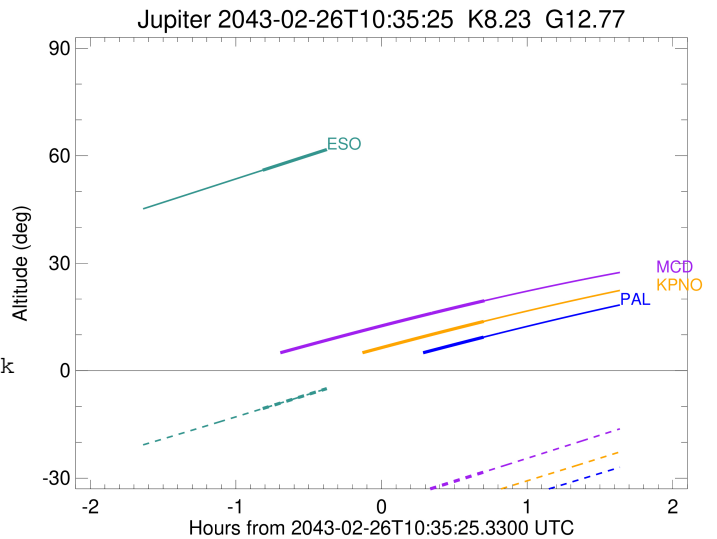
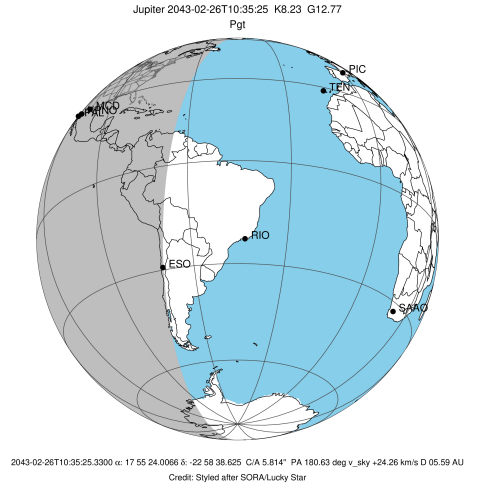



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-26T10:31:48.120
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : PAL
Location            : Palomar Mt (200")
Latitude (deg)      : 33.35622
E. Longitude (deg)  : 243.13601
Altitude (km)       : 1.706
Gaia source ID      : 4070140876339375360
2Mass ID (if available) : 17552400-2258386
ICRS Star Coord at Epoch: 17h 55m 24.00657s -22:58:38.62517s
RUWE (>1.4 is poor) : 0.76
K magnitude          : 8.230
G magnitude          : 12.769
RP magnitude         : 11.606
BP magnitude         : 14.233
DUPflag             : 0
Distance (au)       : 5.592
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 24.26
Sun-Target sep (deg) : 68.18
Sun-Moon sep (deg)   : 82.92
B (ring opening deg) : -2.52
PA of pole (deg)     : -0.34
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation ("): 6.764
C/A sky separation (km): 27434.9
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
    
```

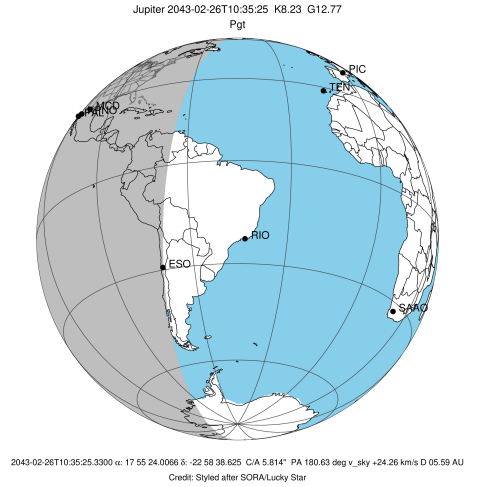


x: target alt < 5.0 deg or sun > -5.0 deg

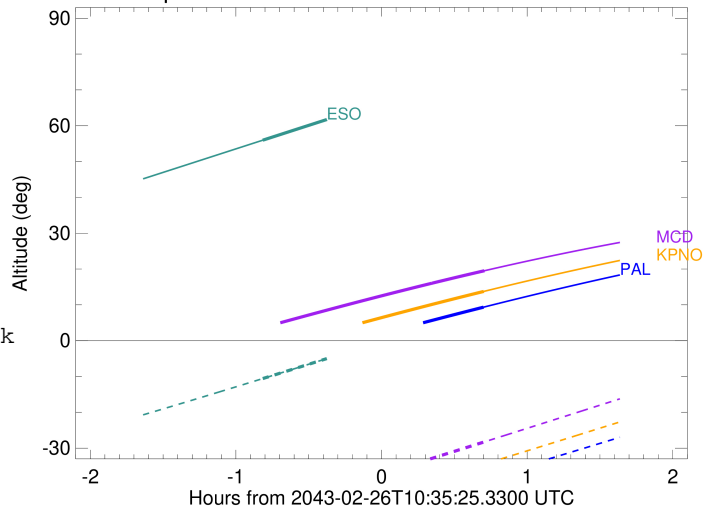
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-26T09:46:18.402	-7.36x	-55.39	71490.9	21.22	23.92
Jupiter	E	2043-02-26T11:17:27.992	9.35	-38.46	71490.6	23.84	26.77

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-26T10:31:52.070
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : KPNO
Location             : Kitt Peak Natl Obs
Latitude (deg)       : 31.96333
E. Longitude (deg)   : 248.40000
Altitude (km)        : 2.120
Gaia source ID       : 4070140876339375360
2Mass ID (if available) : 17552400-2258386
ICRS Star Coord at Epoch: 17h 55m 24.00657s -22:58:38.62517s
RUWE (>1.4 is poor) : 0.76
K magnitude           : 8.230
G magnitude           : 12.769
RP magnitude          : 11.606
BP magnitude          : 14.233
DUPflag              : 0
Distance (au)         : 5.592
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 24.26
Sun-Target sep (deg)  : 68.18
Sun-Moon sep (deg)   : 82.99
B (ring opening deg) : -2.52
PA of pole (deg)     : -0.34
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (" ) : 6.782
C/A sky separation (km) : 27508.5
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 2043-02-26T10:35:25 K8.23 G12.77

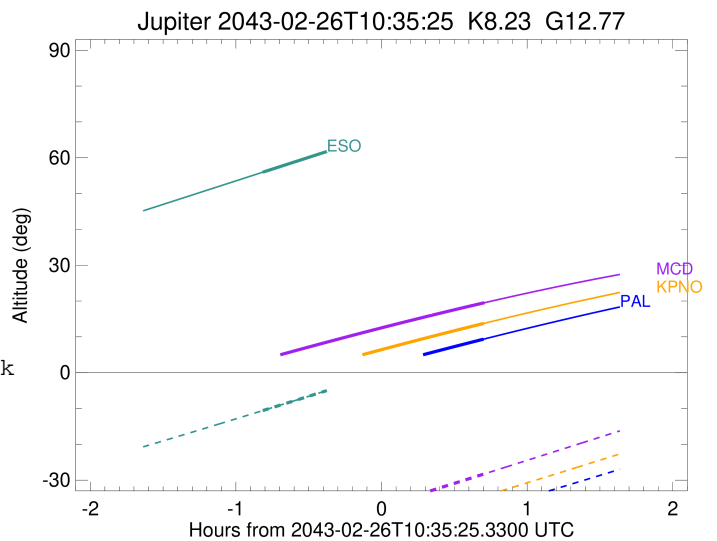
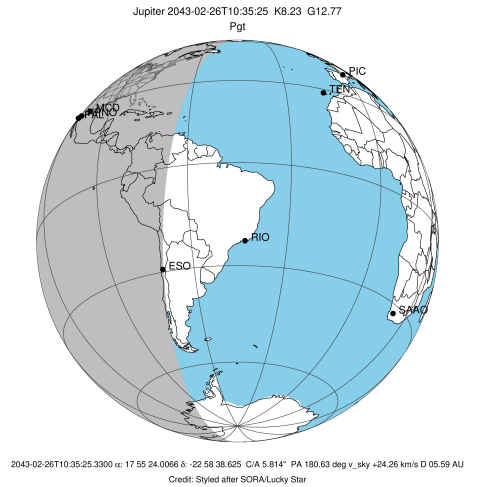


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-26T09:46:19.448	-2.74x	-52.54	71490.9	21.29	23.99
Jupiter	E	2043-02-26T11:17:34.748	13.75	-34.48	71490.6	23.90	26.83

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-26T10:32:03.110
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : MCD
Location            : McDonald Obs. 2.7m
Latitude (deg)      : 30.67158
E. Longitude (deg)  : 255.97844
Altitude (km)       : 2.075
Gaia source ID      : 4070140876339375360
2Mass ID (if available) : 17552400-2258386
ICRS Star Coord at Epoch: 17h 55m 24.00657s -22:58:38.62517s
RUWE (>1.4 is poor) : 0.76
K magnitude          : 8.230
G magnitude          : 12.769
RP magnitude         : 11.606
BP magnitude         : 14.233
DUPflag             : 0
Distance (au)       : 5.592
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 24.26
Sun-Target sep (deg) : 68.18
Sun-Moon sep (deg)  : 83.10
B (ring opening deg) : -2.52
PA of pole (deg)    : -0.34
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation ("): 6.820
C/A sky separation (km): 27663.2
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
    
```

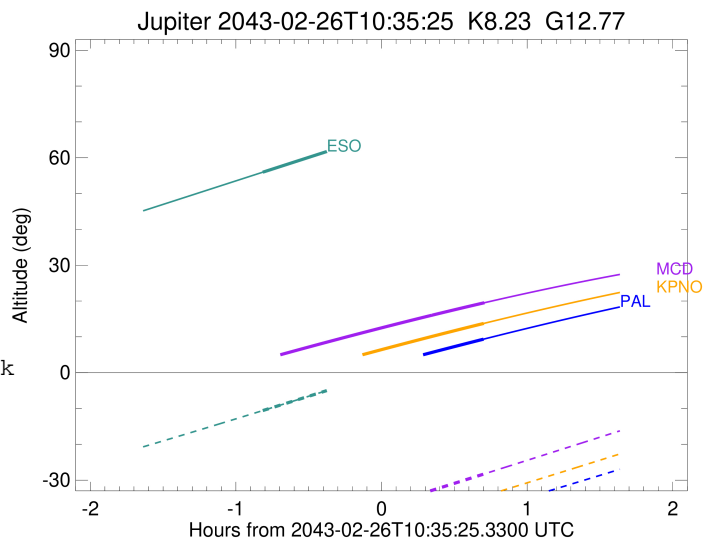
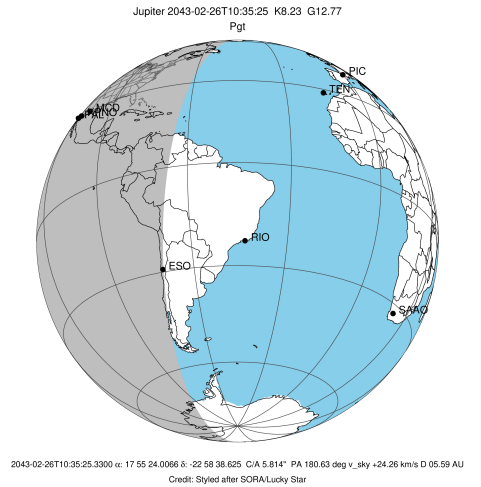


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-26T09:46:27.252	3.64x	-47.30	71490.8	21.44	24.15
Jupiter	E	2043-02-26T11:17:48.617	19.52	-28.25	71490.6	24.01	26.95

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-26T10:33:43.520
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       : 4070140876339375360
2Mass ID (if available) : 17552400-2258386
ICRS Star Coord at Epoch: 17h 55m 24.00657s -22:58:38.62517s
RUWE (>1.4 is poor) : 0.76
K magnitude           : 8.230
G magnitude           : 12.769
RP magnitude         : 11.606
BP magnitude         : 14.233
DUPflag              : 0
Distance (au)        : 5.592
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 24.26
Sun-Target sep (deg) : 68.18
Sun-Moon sep (deg)   : 83.78
B (ring opening deg) : -2.52
PA of pole (deg)     : -0.34
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation ("): 5.600
C/A sky separation (km): 22711.8
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
    
```



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	2043-02-26T09:46:29.093	55.95	-10.58	71491.2	17.33	19.63
Jupiter	E	2043-02-26T11:21:04.197	76.24	9.70x	71491.0	19.60	22.14