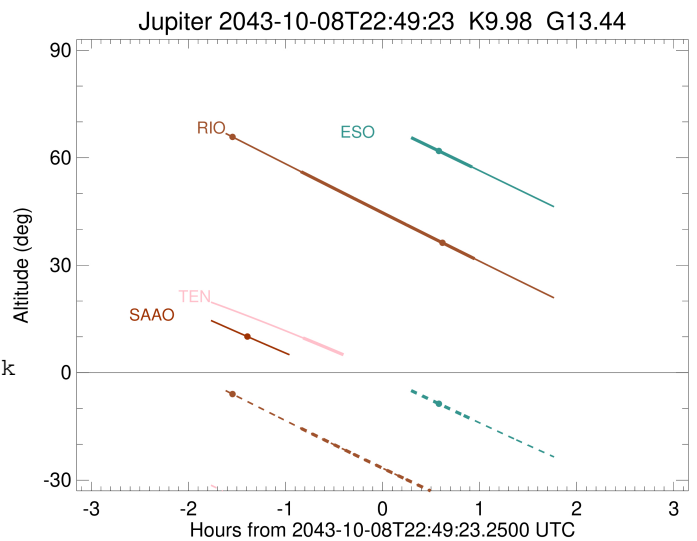
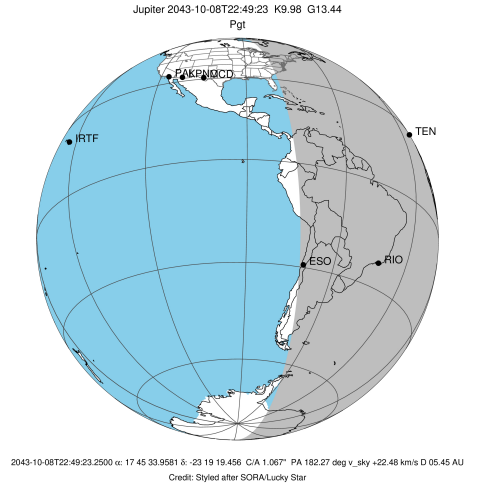



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-08T22:53:24.400
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       : 4068803423524998912
2Mass ID (if available) : 17453395-2319194
ICRS Star Coord at Epoch: 17h 45m 33.95808s -23:19:19.45603s
RUWE (>1.4 is poor) : 0.83
K magnitude          : 9.981
G magnitude          : 13.440
RP magnitude         : 12.438
BP magnitude         : 14.479
DUPflag             : 0
Distance (au)        : 5.454
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 22.48
Sun-Target sep (deg) : 71.74
Sun-Moon sep (deg)  : 10.08
B (ring opening deg) : -2.17
PA of pole (deg)    : 0.72
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (" ) : 1.945
C/A sky separation (km) : 7692.3
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
    
```

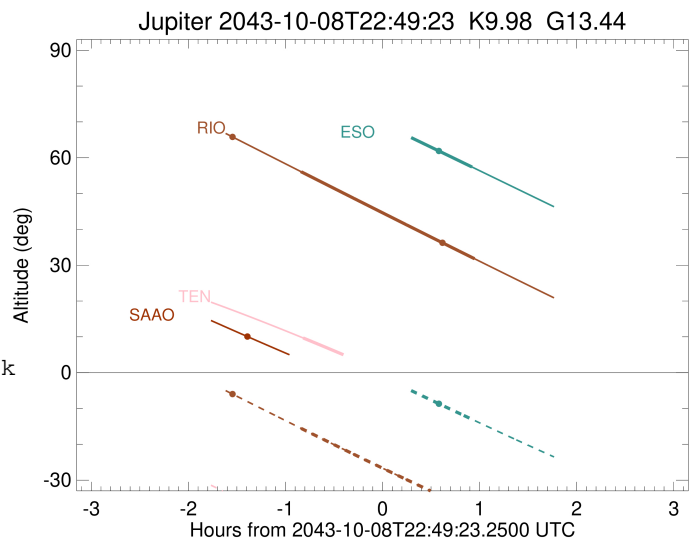
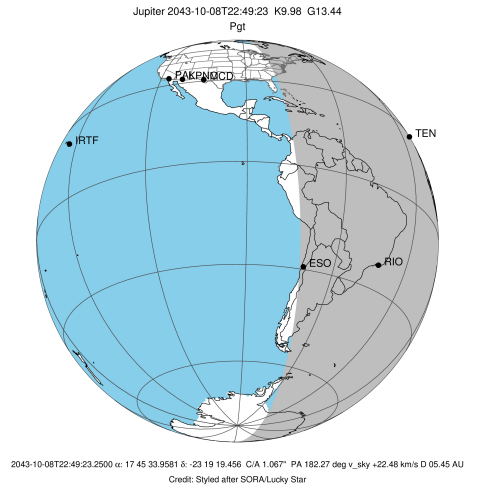


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-10-08T22:00:21.599	9.68	-43.54	71491.9	5.00	5.72
Jupiter	E	2043-10-08T23:46:11.611	-11.19x	-62.86	71491.9	7.31	8.35

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-10-08T22:52:46.720
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      : 4068803423524998912
2Mass ID (if available) : 17453395-2319194
ICRS Star Coord at Epoch: 17h 45m 33.95808s -23:19:19.45603s
RUWE (>1.4 is poor) : 0.83
K magnitude         : 9.981
G magnitude         : 13.440
RP magnitude        : 12.438
BP magnitude        : 14.479
DUPflag            : 0
Distance (au)       : 5.454
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 22.48
Sun-Target sep (deg) : 71.74
Sun-Moon sep (deg)  : 9.77
B (ring opening deg) : -2.17
PA of pole (deg)    : 0.72
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation (" ) : 0.918
C/A sky separation (km) : 3631.1
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
    
```

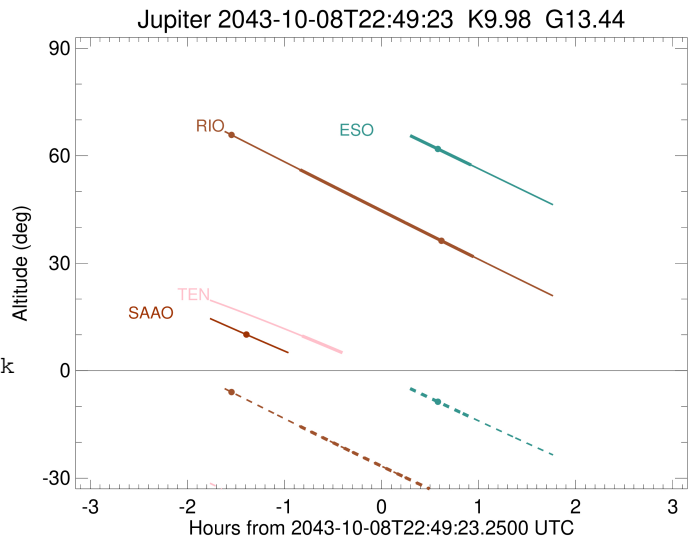
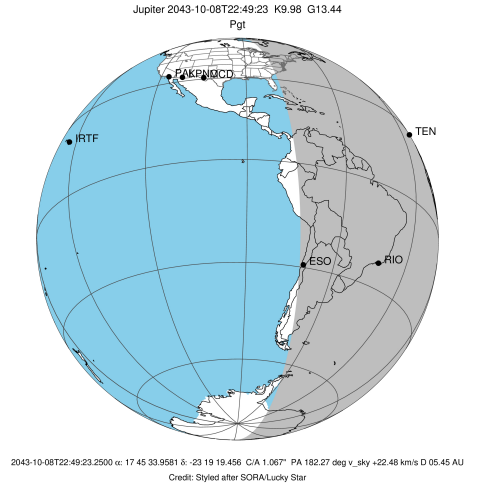


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-10-08T21:59:04.509	56.09	-15.55	71492.0	1.63	1.87
Jupiter	E	2043-10-08T23:46:15.264	31.80	-38.59	71492.0	4.11	4.70

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-10-08T22:50:59.410
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       : 4068803423524998912
2Mass ID (if available) : 17453395-2319194
ICRS Star Coord at Epoch: 17h 45m 33.95808s -23:19:19.45603s
RUWE (>1.4 is poor) : 0.83
K magnitude           : 9.981
G magnitude           : 13.440
RP magnitude          : 12.438
BP magnitude          : 14.479
DUPflag              : 0
Distance (au)        : 5.454
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 22.48
Sun-Target sep (deg) : 71.74
Sun-Moon sep (deg)   : 9.52
B (ring opening deg) : -2.17
PA of pole (deg)     : 0.72
Pole direction: RA (deg): 268.05674
Dec (deg): 64.49731
C/A sky separation ("): 0.890
C/A sky separation (km): 3520.1
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	2043-10-08T21:57:05.380	80.13	10.20x	71492.0	1.35	1.54
Jupiter	E	2043-10-08T23:44:45.646	57.39	-13.03	71492.0	4.20	4.80