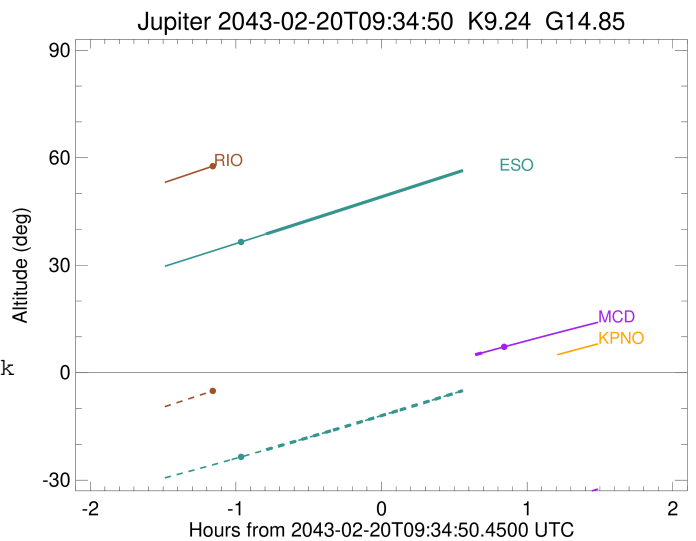
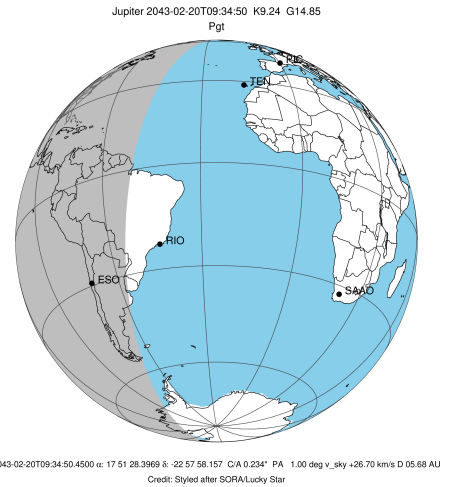



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-20T09:31:26.080
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       : 4068712271558830848
2Mass ID (if available) : 17512840-2257581
ICRS Star Coord at Epoch: 17h 51m 28.39695s -22:57:58.15734s
RUWE (>1.4 is poor) : 0.95
K magnitude          : 9.241
G magnitude          : 14.850
RP magnitude         : 13.475
BP magnitude         : 17.153
DUPflag             : 0
Distance (au)        : 5.682
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 26.70
Sun-Target sep (deg) : 63.00
Sun-Moon sep (deg)   : 159.83
B (ring opening deg) : -2.54
PA of pole (deg)     : 0.08
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 0.576
C/A sky separation (km) : 2374.9
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
    
```

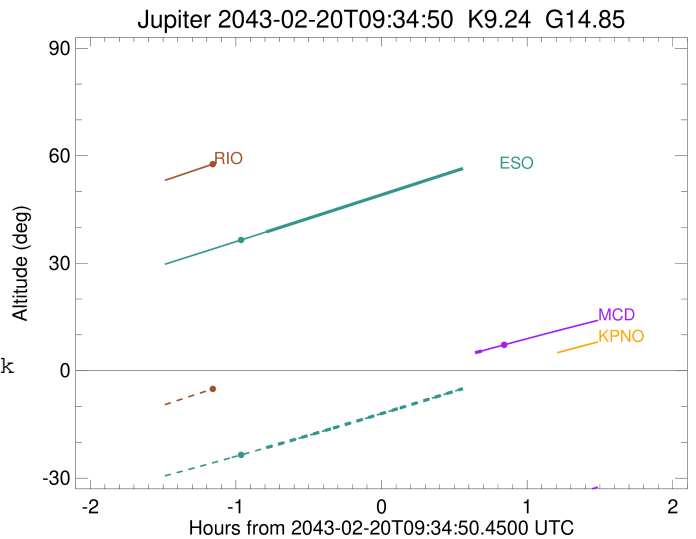
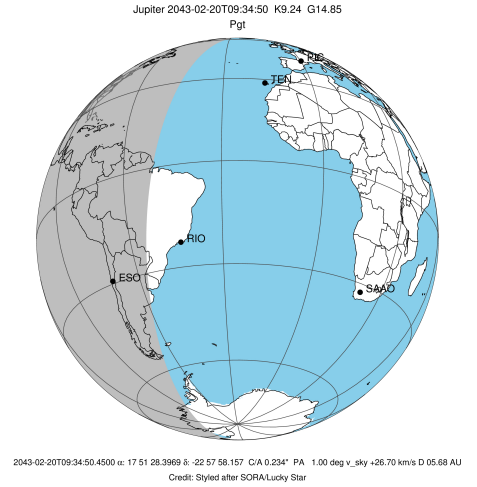


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-02-20T08:46:47.651	-11.94x	-60.15	71492.0	0.64	0.73
Jupiter	E	2043-02-20T10:16:13.694	5.52	-42.60	71492.0	3.16	3.61

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-20T09:32:21.620
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      : 4068712271558830848
2Mass ID (if available) : 17512840-2257581
ICRS Star Coord at Epoch: 17h 51m 28.39695s -22:57:58.15734s
RUWE (>1.4 is poor) : 0.95
K magnitude          : 9.241
G magnitude          : 14.850
RP magnitude         : 13.475
BP magnitude         : 17.153
DUPflag             : 0
Distance (au)       : 5.682
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 26.70
Sun-Target sep (deg) : 63.00
Sun-Moon sep (deg)  : 159.71
B (ring opening deg) : -2.54
PA of pole (deg)    : 0.08
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 0.563
C/A sky separation (km) : 2320.0
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	2043-02-20T08:47:21.061	38.73	-21.51	71492.0	-3.06	-3.50
Jupiter	E	2043-02-20T10:17:29.553	58.42	-3.08x	71492.0	-0.70	-0.80