

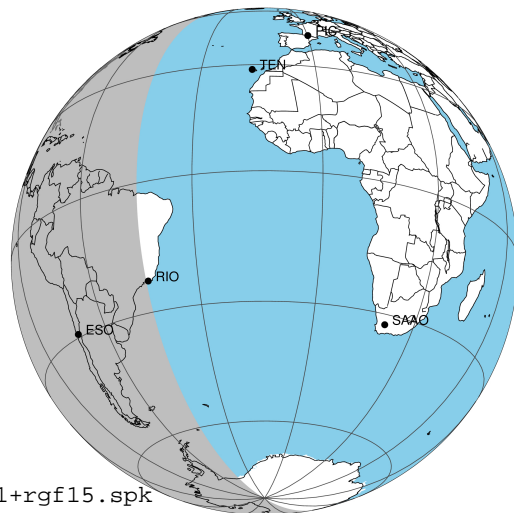
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2032-03-18T09:01:52.750
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 6865294945358748672
 2Mass ID (if available) : 19524008-2102478

Jupiter 2032-03-18T09:01:52 K7.36 G9.72 Pgt

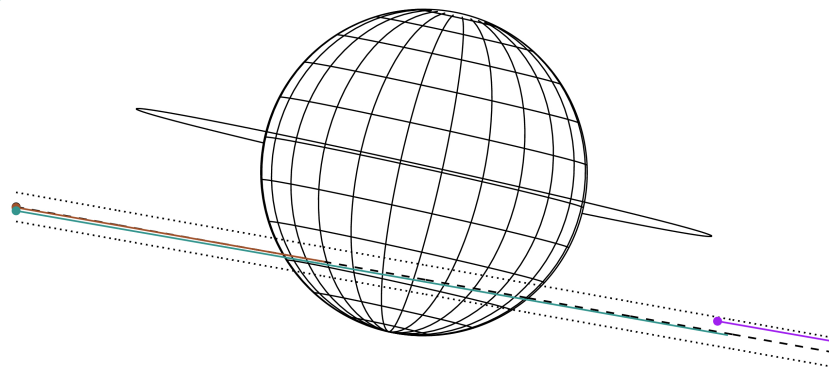
ICRS Star Coord at Epoch: 19h 52m 40.04193s -21:02:48.51203s

RUWE (>1.4 is poor) : 1.14
 K magnitude : 7.360
 G magnitude : 9.716
 RP magnitude : 8.990
 BP magnitude : 10.296
 DUPflag : 0
 Distance (au) : 5.578
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 27.60
 Sun-Target sep (deg) : 61.74
 Sun-Moon sep (deg) : 145.98
 B (ring opening deg) : -1.35
 PA of pole (deg) : -12.48
 Pole direction: RA (deg): 268.05670
 Dec (deg): 64.49654
 C/A sky separation (") : 11.404
 C/A sky separation (km) : 46139.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2032-03-18T09:01:52 K7.36 G9.72
 Pgt



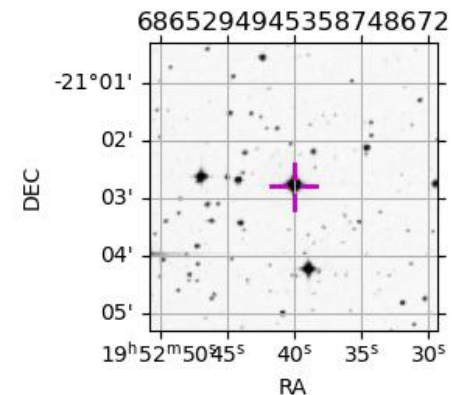
Earth
 MCD
 RIO
 ESO



2032-03-18T09:01:52.7500 a: 19 52 40.0419 s: -21 02 48.512 C/A ***** PA 349.91 deg v_sky +27.60 km/s D 05.58 AU
 Credit: Styled after SORA/Lucky Star

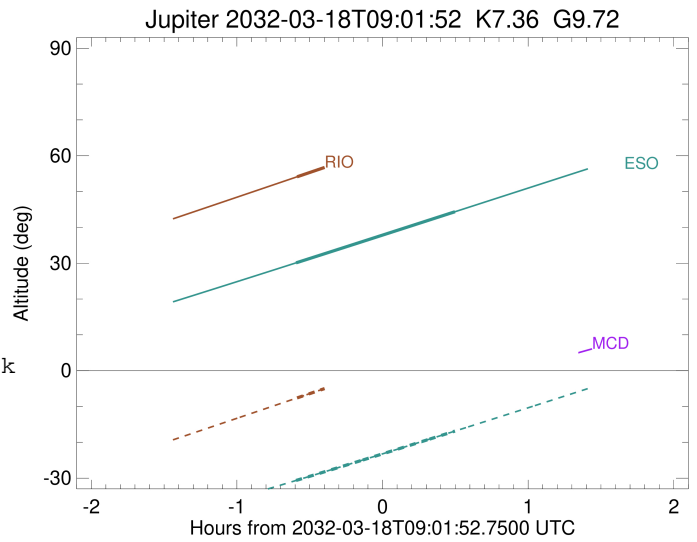
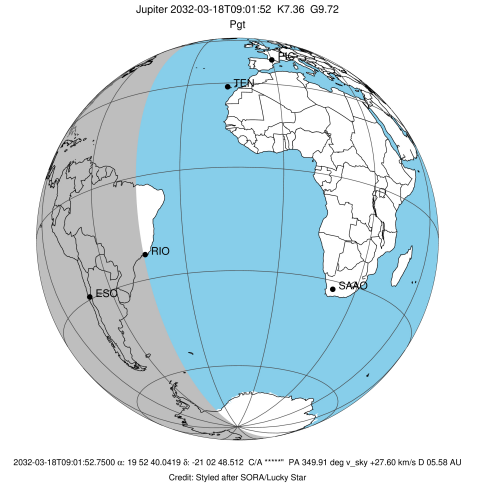
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OCode
PIC	Pic du Midi	42.9	0.1			Pnn
PAL	Palomar Mt (200")	33.4	243.1			Pnn
PMO	Purple Mtn Obs. Nanking	32.1	118.8			Pnn
KPNO	Kitt Peak Natl Obs	32.0	248.4			Pnn
MCD	McDonald Obs. 2.7m	30.7	256.0			Pnn
TEN	Teide Obs./Tenerife	28.3	343.5			Pnn
IRTF	Mauna Kea/IRTF	19.8	204.5			Pnn
KAV	Kavalur Observatory	12.6	78.8			Pnn
RIO	Rio de Janeiro	-22.9	316.8	+	MAR 18 08:26 - MAR 18 08:26	Pin
ESO	European Southern Obs. (3.6m)	-29.3	289.3	+	MAR 18 08:26 - MAR 18 09:31	Pie
AAT	Siding Spring (AAT)	-31.3	149.1			Pnn
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8			Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0			Pnn



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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2032-03-18T09:00:04.290
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        : 6865294945358748672
2Mass ID (if available) : 19524008-2102478
ICRS Star Coord at Epoch: 19h 52m 40.04193s -21:02:48.51203s
RUWE (>1.4 is poor)  : 1.14
K magnitude           : 7.360
G magnitude           : 9.716
RP magnitude          : 8.990
BP magnitude          : 10.296
DUPflag              : 0
Distance (au)         : 5.578
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 27.60
Sun-Target sep (deg)  : 61.74
Sun-Moon sep (deg)    : 146.08
B (ring opening deg) : -1.35
PA of pole (deg)      : -12.48
Pole direction: RA (deg): 268.05670
Dec (deg): 64.49654
C/A sky separation (") : 11.392
C/A sky separation (km) : 46090.4
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
    
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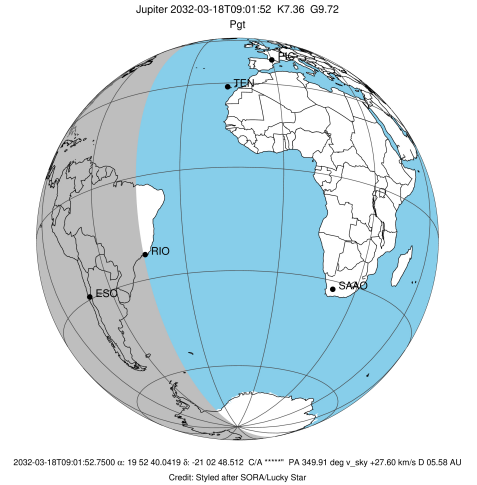


x: target alt < 5.0 deg or sun > -5.0 deg

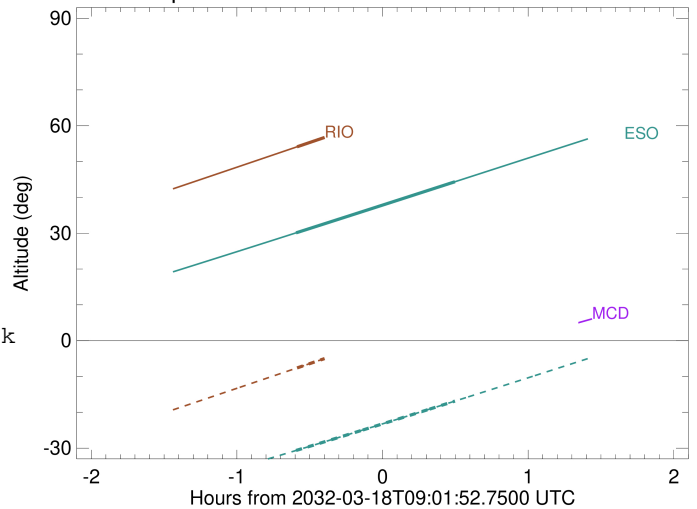
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2032-03-18T08:26:39.059	54.11	-7.61	71490.9	-42.56	-46.28
Jupiter	E	2032-03-18T09:33:32.333	69.55	7.79x	71491.1	-37.75	-41.42

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2032-03-18T08:58:57.330
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      : 6865294945358748672
2Mass ID (if available) : 19524008-2102478
ICRS Star Coord at Epoch: 19h 52m 40.04193s -21:02:48.51203s
RUWE (>1.4 is poor) : 1.14
K magnitude         : 7.360
G magnitude         : 9.716
RP magnitude        : 8.990
BP magnitude        : 10.296
DUPflag            : 0
Distance (au)       : 5.578
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 27.60
Sun-Target sep (deg) : 61.74
Sun-Moon sep (deg)  : 145.72
B (ring opening deg) : -1.35
PA of pole (deg)    : -12.48
Pole direction: RA (deg): 268.05670
Dec (deg): 64.49654
C/A sky separation (") : 11.644
C/A sky separation (km) : 47110.6
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 2032-03-18T09:01:52 K7.36 G9.72



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	2032-03-18T08:26:15.223	30.09	-30.65	71490.8	-43.79	-47.50
Jupiter	E	2032-03-18T09:31:43.490	44.36	-16.87	71491.0	-38.67	-42.36