

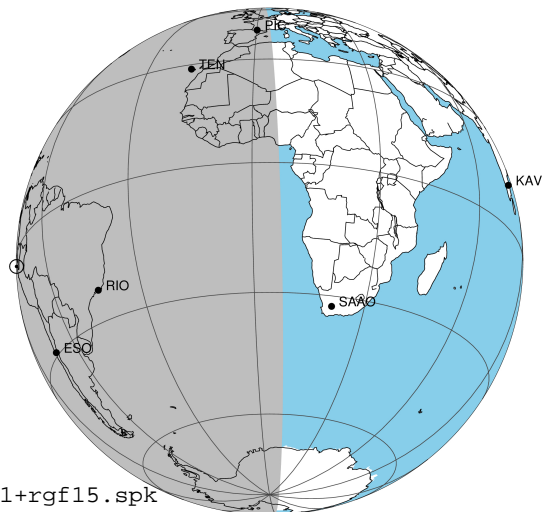
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2043-03-26T05:41:06.590
 Event type : Pt
 : Jupiter occs: topocentric, not geocentric
 : Not a ringed target
 Gaia source ID : 4066589389410939648
 2Mass ID (if available) : 18084894-2259027

Jupiter 2043-03-26T05:41:06 K8.24 G13.70 Pt

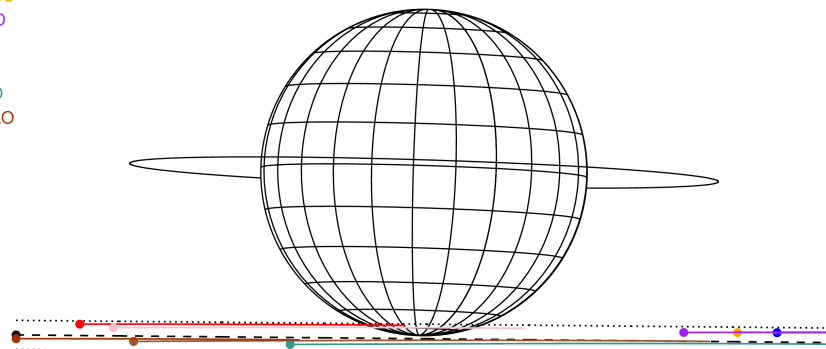
ICRS Star Coord at Epoch: 18h 08m 48.94825s -22:59:03.04797s

RUWE (>1.4 is poor) : 1.06
 K magnitude : 8.244
 G magnitude : 13.704
 RP magnitude : 12.385
 BP magnitude : 15.724
 DUPflag : 0
 Distance (au) : 5.152
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 11.71
 Sun-Target sep (deg) : 92.84
 Sun-Moon sep (deg) : 80.13
 B (ring opening deg) : -2.46
 PA of pole (deg) : -1.79
 Pole direction: RA (deg): 268.05664
 Dec (deg): 64.49732
 C/A sky separation (") : 19.491
 C/A sky separation (km) : 72825.3
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2043-03-26T05:41:06 K8.24 G13.70
 Pt



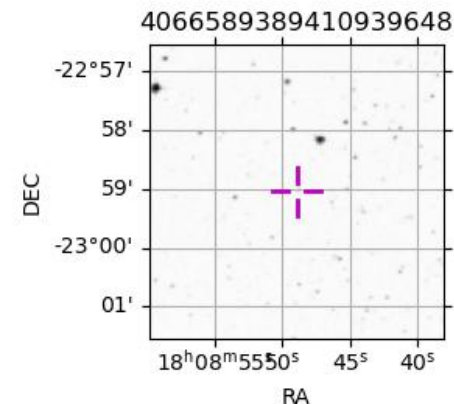
Earth
 PIC
 PAL
 KPNO
 MCD
 TEN
 RIO
 ESO
 SAAO



2043-03-26T05:41:06.5900 a: 18 08 48.9482 s: -22 59 03.048 C/A ***** PA 359.46 deg v_sky +11.71 km/s D 05.15 AU
 Credit: Styled after SORA/Lucky Star

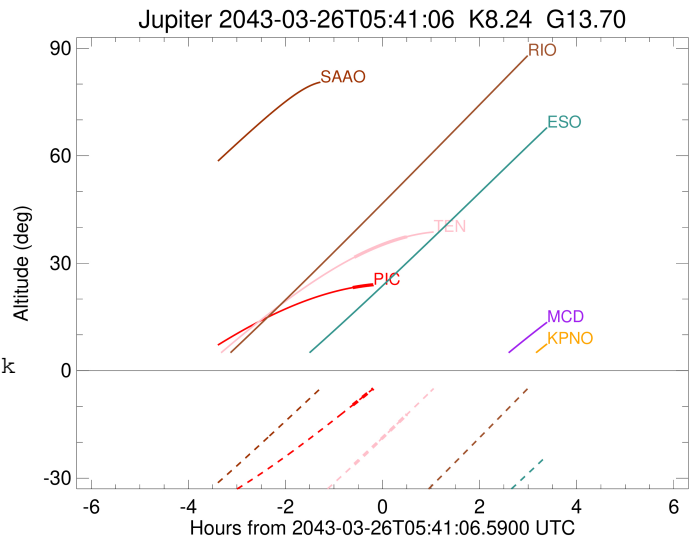
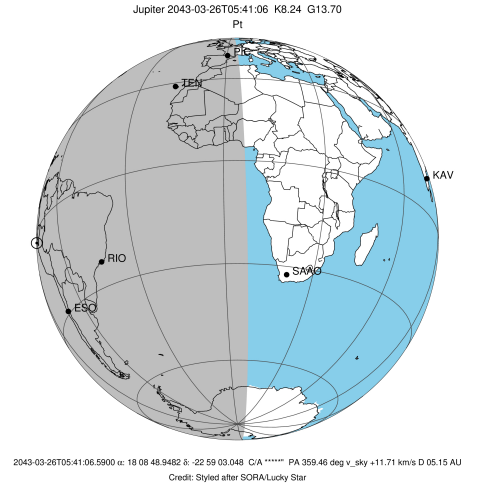
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OCode
PIC	Pic du Midi	42.9	0.1	+	MAR 26 05:04 - MAR 26 05:04	Pin
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	+ +	MAR 26 05:06 - MAR 26 06:11	Pie
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			Pnn
ESO	European Southern Obs. (3.6m)	-29.3	289.3			Pnn
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            : 2043-03-26T05:40:48.390
Event type           : Pt
: Jupiter occs: topocentric, not geocentric
: 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       : 4066589389410939648
2Mass ID (if available) : 18084894-2259027
ICRS Star Coord at Epoch: 18h 08m 48.94825s -22:59:03.04797s
RUWE (>1.4 is poor) : 1.06
K magnitude           : 8.244
G magnitude           : 13.704
RP magnitude         : 12.385
BP magnitude         : 15.724
DUPflag              : 0
Distance (au)        : 5.152
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 11.71
Sun-Target sep (deg) : 92.84
Sun-Moon sep (deg)   : 80.50
B (ring opening deg) : -2.46
PA of pole (deg)     : -1.79
Pole direction: RA (deg): 268.05664
Dec (deg): 64.49732
C/A sky separation (") : 17.937
C/A sky separation (km) : 67018.0
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
    
```

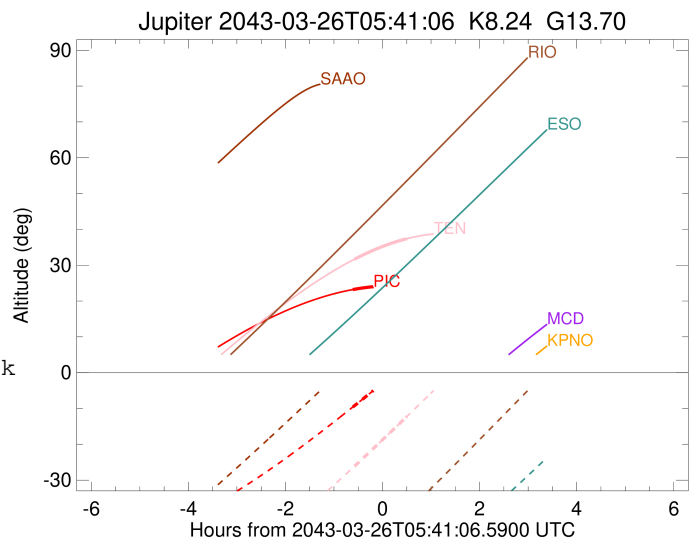
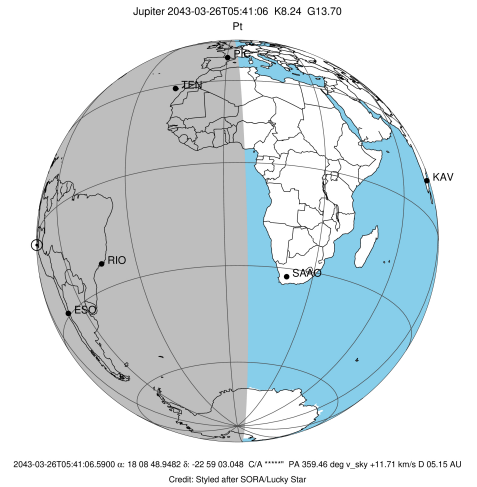


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-26T05:04:28.705	23.20	-9.58	71484.6	-70.81	-72.95
Jupiter	E	2043-03-26T06:17:11.217	24.11	3.69x	71484.8	-68.29	-70.67

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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-03-26T05:38:46.530
Event type           : Pt
: Jupiter occs: topocentric, not geocentric
: 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       : 4066589389410939648
2Mass ID (if available) : 18084894-2259027
ICRS Star Coord at Epoch: 18h 08m 48.94825s -22:59:03.04797s
RUWE (>1.4 is poor) : 1.06
K magnitude           : 8.244
G magnitude           : 13.704
RP magnitude         : 12.385
BP magnitude         : 15.724
DUPflag              : 0
Distance (au)        : 5.152
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 11.71
Sun-Target sep (deg) : 92.84
Sun-Moon sep (deg)   : 80.61
B (ring opening deg) : -2.46
PA of pole (deg)     : -1.79
Pole direction: RA (deg): 268.05664
Dec (deg): 64.49732
C/A sky separation (") : 18.195
C/A sky separation (km) : 67982.5
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
    
```



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	2043-03-26T05:06:24.615	31.66	-26.13	71484.4	-73.38	-75.26
Jupiter	E	2043-03-26T06:11:13.780	37.40	-12.23	71484.6	-70.39	-72.57