

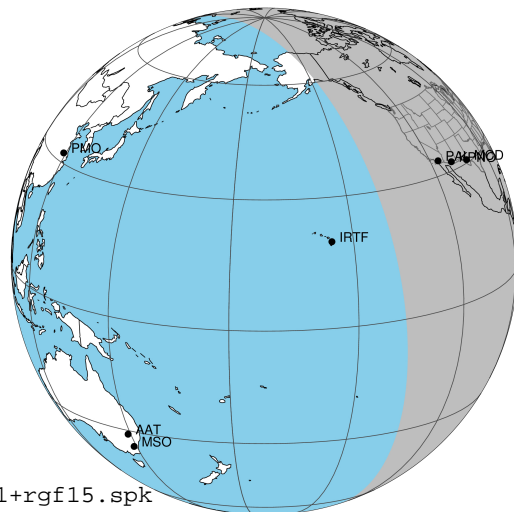
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2036-03-07T03:23:14.030
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 34160245727252608
 2Mass ID (if available) : 02553347+1550406

Jupiter 2036-03-07T03:23:14 K9.09 G11.71 Pgt

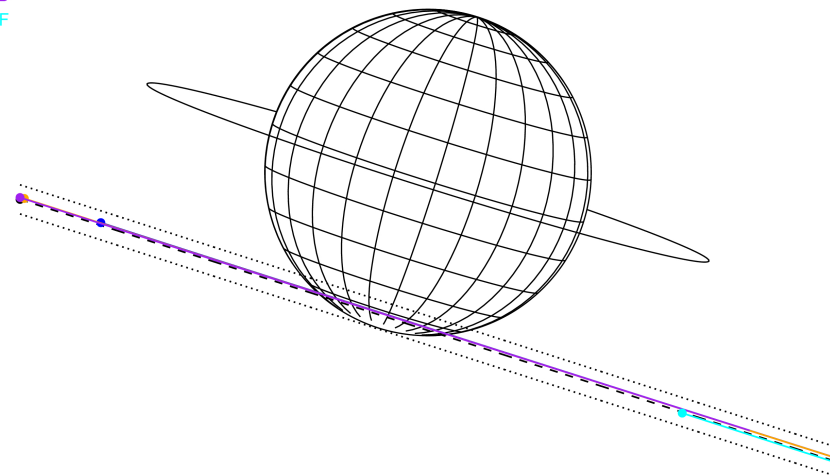
ICRS Star Coord at Epoch: 02h 55m 33.49282s +15:50:40.72028s

RUWE (>1.4 is poor) : 1.18
 K magnitude : 9.088
 G magnitude : 11.714
 RP magnitude : 10.930
 BP magnitude : 12.378
 DUPflag : 0
 Distance (au) : 5.441
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 28.30
 Sun-Target sep (deg) : 59.47
 Sun-Moon sep (deg) : 49.46
 B (ring opening deg) : 2.91
 PA of pole (deg) : -17.48
 Pole direction: RA (deg): 268.05637
 Dec (deg): 64.49684
 C/A sky separation (") : 16.696
 C/A sky separation (km) : 65887.7
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2036-03-07T03:23:14 K9.09 G11.71
 Pgt



Earth
 PAL
 KPNO
 MCD
 IRTF

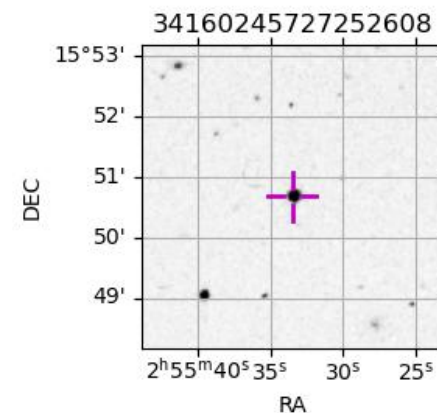


2036-03-07T03:23:14.0300 α: 02 55 33.4928 ♂: +15 50 40.720 C/A ***** PA 342.19 deg v_sky +28.30 km/s D 05.44 AU

Credit: Styled after SORA/Lucky Star

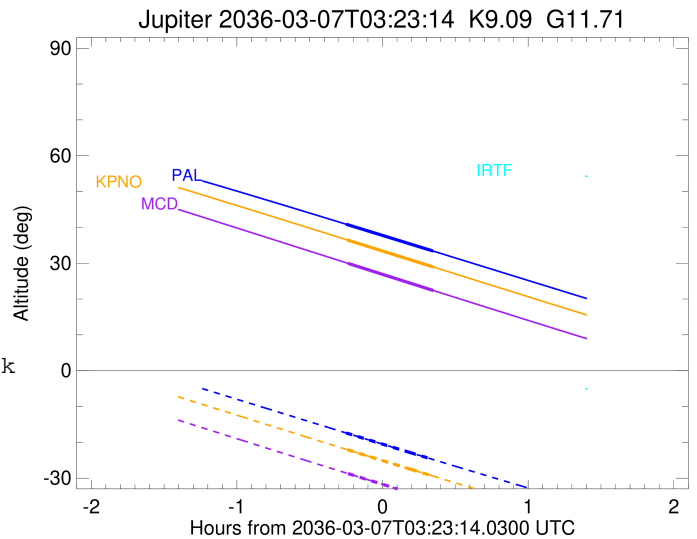
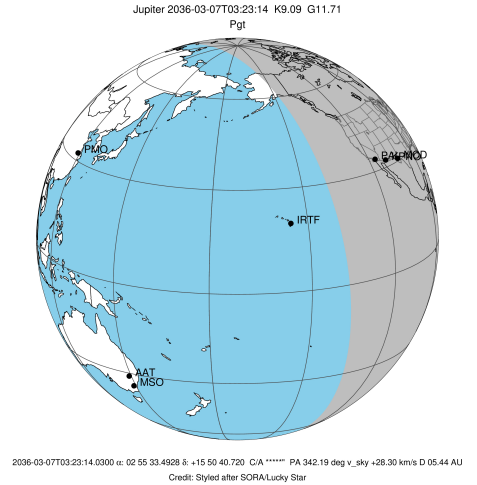
Observable events with sun below -5 deg and altitude above 5 deg

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	+ +	MAR 07 03:08 - MAR 07 03:44	Pie
PMO	Purple Mtn Obs. Nanking	32.1	118.8			Pnn
KPNO	Kitt Peak Natl Obs	32.0	248.4	+ +	MAR 07 03:08 - MAR 07 03:44	Pie
MCD	McDonald Obs. 2.7m	30.7	256.0	+ +	MAR 07 03:09 - MAR 07 03:44	Pie
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			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            : 2036-03-07T03:26:11.020
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       : 34160245727252608
2Mass ID (if available) : 02553347+1550406
ICRS Star Coord at Epoch: 02h 55m 33.49282s +15:50:40.72028s
RUWE (>1.4 is poor) : 1.18
K magnitude          : 9.088
G magnitude          : 11.714
RP magnitude         : 10.930
BP magnitude         : 12.378
DUPflag             : 0
Distance (au)        : 5.441
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 28.30
Sun-Target sep (deg) : 59.47
Sun-Moon sep (deg)  : 49.43
B (ring opening deg) : 2.91
PA of pole (deg)    : -17.48
Pole direction: RA (deg): 268.05637
Dec (deg): 64.49684
C/A sky separation ("): 16.425
C/A sky separation (km): 64818.7
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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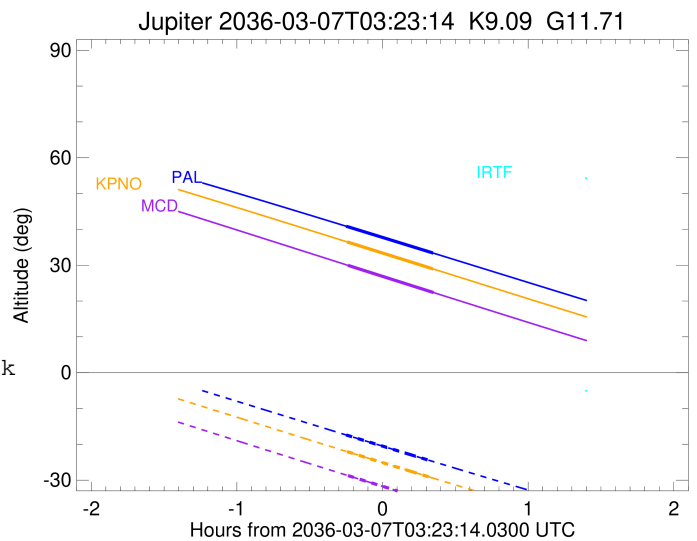
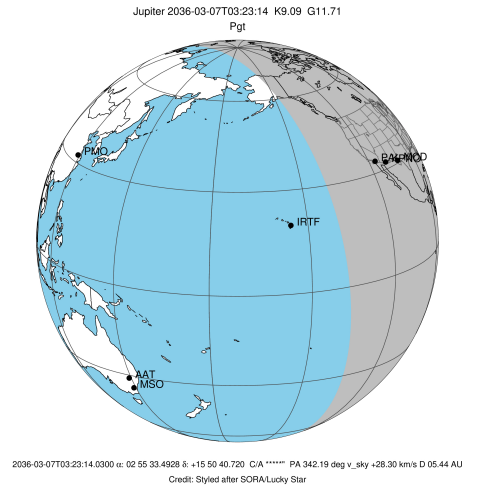


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2036-03-07T03:08:16.060	40.87	-17.39	71482.6	-64.60	-67.31
Jupiter	E	2036-03-07T03:44:04.897	33.39	-24.80	71482.5	-65.19	-67.85

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2036-03-07T03:26:23.210
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        : 34160245727252608
2Mass ID (if available) : 02553347+1550406
ICRS Star Coord at Epoch: 02h 55m 33.49282s +15:50:40.72028s
RUWE (>1.4 is poor) : 1.18
K magnitude           : 9.088
G magnitude           : 11.714
RP magnitude          : 10.930
BP magnitude          : 12.378
DUPflag              : 0
Distance (au)         : 5.441
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 28.30
Sun-Target sep (deg) : 59.47
Sun-Moon sep (deg)   : 49.35
B (ring opening deg) : 2.91
PA of pole (deg)     : -17.48
Pole direction: RA (deg): 268.05637
Dec (deg): 64.49684
C/A sky separation (") : 16.455
C/A sky separation (km) : 64938.6
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
    
```

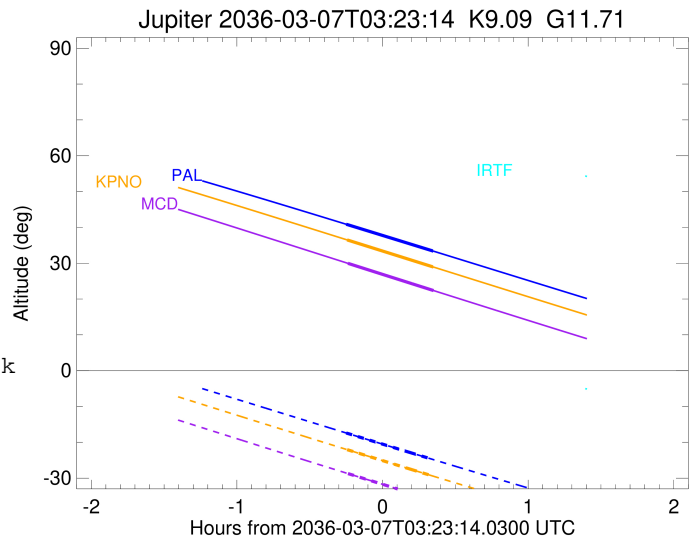
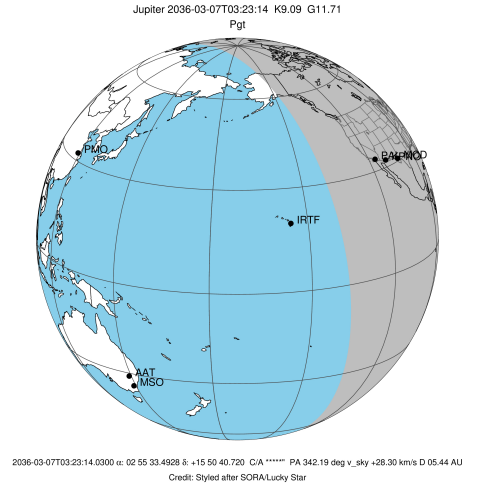


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2036-03-07T03:08:38.400	36.50	-22.04	71482.6	-64.86	-67.55
Jupiter	E	2036-03-07T03:44:06.884	28.95	-29.44	71482.5	-65.38	-68.03

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2036-03-07T03:26:38.180
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        : 34160245727252608
2Mass ID (if available) : 02553347+1550406
ICRS Star Coord at Epoch: 02h 55m 33.49282s +15:50:40.72028s
RUWE (>1.4 is poor) : 1.18
K magnitude           : 9.088
G magnitude           : 11.714
RP magnitude          : 10.930
BP magnitude          : 12.378
DUPflag              : 0
Distance (au)         : 5.441
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 28.30
Sun-Target sep (deg)  : 59.47
Sun-Moon sep (deg)   : 49.24
B (ring opening deg) : 2.91
PA of pole (deg)     : -17.48
Pole direction: RA (deg): 268.05637
Dec (deg): 64.49684
C/A sky separation (") : 16.471
C/A sky separation (km) : 65000.4
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
    
```



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	2036-03-07T03:08:59.698	29.96	-28.72	71482.5	-65.02	-67.69
Jupiter	E	2036-03-07T03:44:15.442	22.36	-36.07	71482.5	-65.46	-68.10