

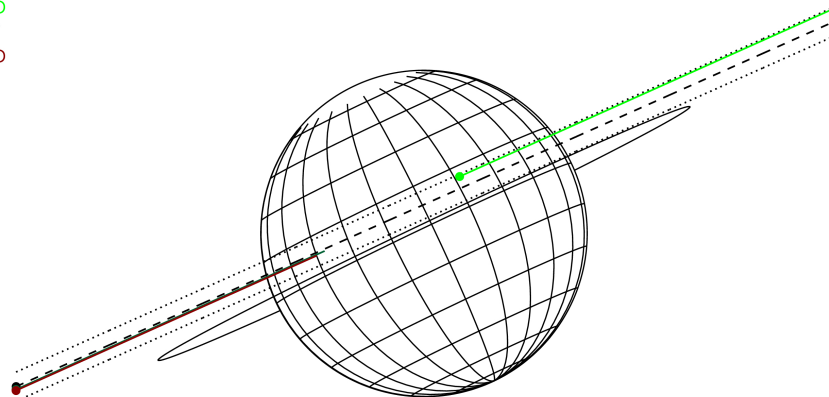
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2028-07-27T11:12:08.680
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3800628414340560128
 2Mass ID (if available) : 11411223+0318056

Jupiter 2028-07-27T11:12:08 K9.98 G11.86 Pgt

ICRS Star Coord at Epoch: 11h 41m 12.14413s +03:18:05.37790s
 RUWE (>1.4 is poor) : 0.78
 K magnitude : 9.977
 G magnitude : 11.858
 RP magnitude : 11.231
 BP magnitude : 12.326
 DUPflag : 0
 Distance (au) : 6.048
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 31.42
 Sun-Target sep (deg) : 49.84
 Sun-Moon sep (deg) : 24.39
 B (ring opening deg) : -1.79
 PA of pole (deg) : 25.49
 Pole direction: RA (deg): 268.05759
 Dec (deg): 64.49659
 C/A sky separation (") : 2.637
 C/A sky separation (km) : 11567.3
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk



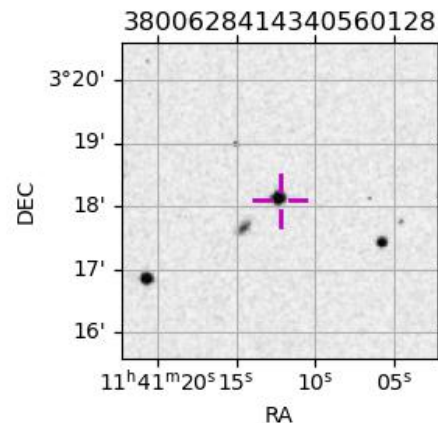
Earth
 PMO
 AAT
 MSO



2028-07-27T11:12:08.6800 cc: 11 41 12.1441 8: +03 18 05.378 C/A 2.632" PA 204.04 deg v_sky +31.42 km/s D 06.05 AU
 Credit: Styled after SORA/Lucky Star

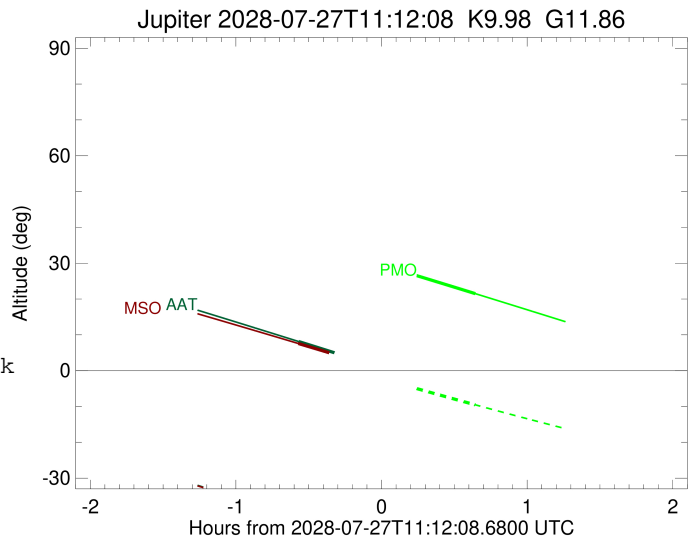
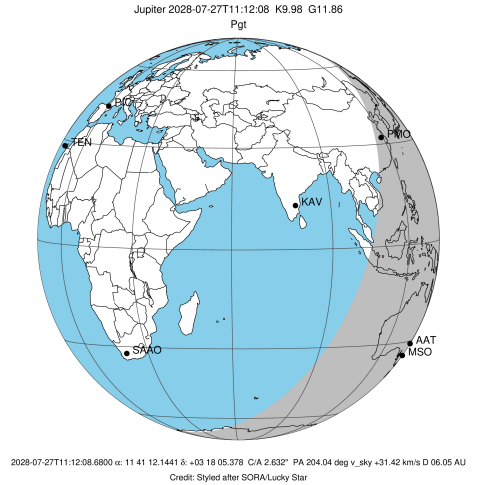
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OEncode
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	+	JUL 27 11:50 - JUL 27 11:50	Pne
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			Pnn
ESO	European Southern Obs. (3.6m)	-29.3	289.3			Pnn
AAT	Siding Spring (AAT)	-31.3	149.1	+	JUL 27 10:37 - JUL 27 10:37	Pin
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8			Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0	+	JUL 27 10:37 - JUL 27 10:37	Pin



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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2028-07-27T11:13:37.600
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : PMO
Location              : Purple Mtn Obs. Nanking
Latitude (deg)       : 32.06667
E. Longitude (deg)   : 118.82089
Altitude (km)        : 0.364
Gaia source ID       : 3800628414340560128
2Mass ID (if available) : 11411223+0318056
ICRS Star Coord at Epoch: 11h 41m 12.14413s +03:18:05.37790s
RUWE (>1.4 is poor) : 0.78
K magnitude           : 9.977
G magnitude           : 11.858
RP magnitude          : 11.231
BP magnitude          : 12.326
DUPflag              : 0
Distance (au)        : 6.048
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 31.42
Sun-Target sep (deg) : 49.84
Sun-Moon sep (deg)   : 24.39
B (ring opening deg) : -1.79
PA of pole (deg)     : 25.49
Pole direction: RA (deg): 268.05759
Dec (deg): 64.49659
C/A sky separation ("): 3.727
C/A sky separation (km): 16345.1
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
    
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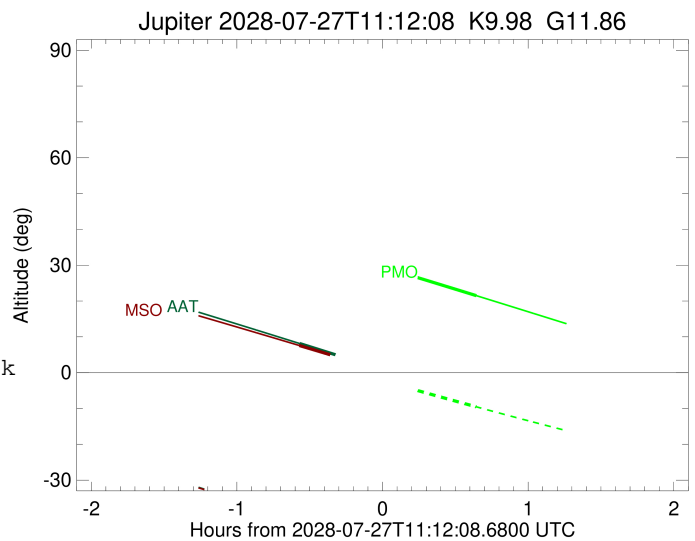
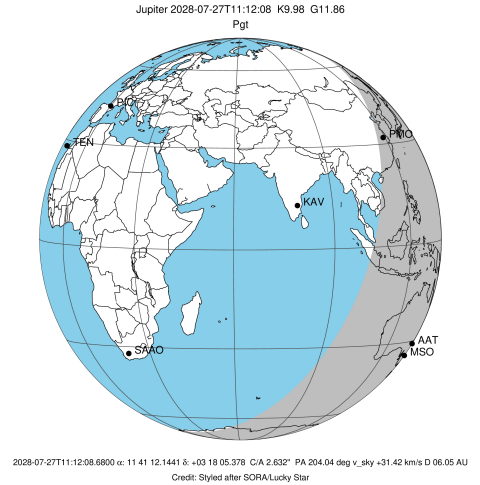


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2028-07-27T10:36:27.271	36.67	4.83x	71491.7	14.44	16.40
Jupiter	E	2028-07-27T11:50:43.700	21.51	-9.52	71491.8	11.94	13.59

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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2028-07-27T11:15:29.660
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : AAT
Location              : Siding Spring (AAT)
Latitude (deg)       : -31.27703
E. Longitude (deg)   : 149.06608
Altitude (km)        : 1.164
Gaia source ID       : 3800628414340560128
2Mass ID (if available) : 11411223+0318056
ICRS Star Coord at Epoch: 11h 41m 12.14413s +03:18:05.37790s
RUWE (>1.4 is poor) : 0.78
K magnitude           : 9.977
G magnitude           : 11.858
RP magnitude          : 11.231
BP magnitude          : 12.326
DUPflag              : 0
Distance (au)        : 6.048
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 31.42
Sun-Target sep (deg) : 49.84
Sun-Moon sep (deg)   : 23.50
B (ring opening deg) : -1.79
PA of pole (deg)     : 25.49
Pole direction: RA (deg): 268.05759
Dec (deg): 64.49659
C/A sky separation ("): 2.457
C/A sky separation (km): 10778.6
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
    
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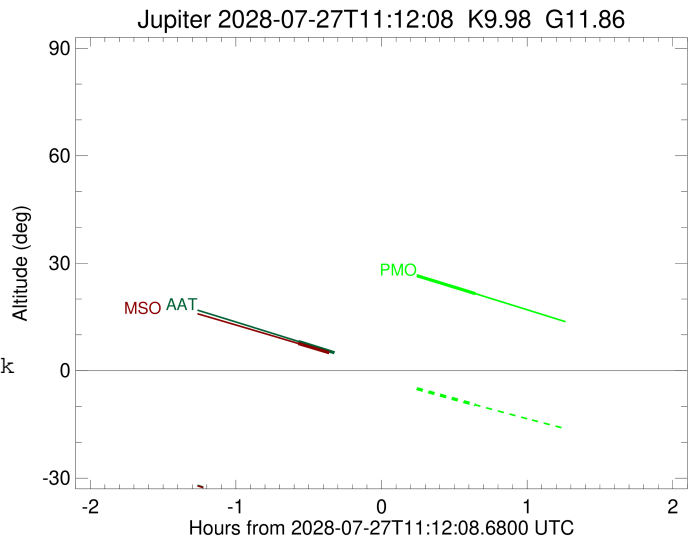
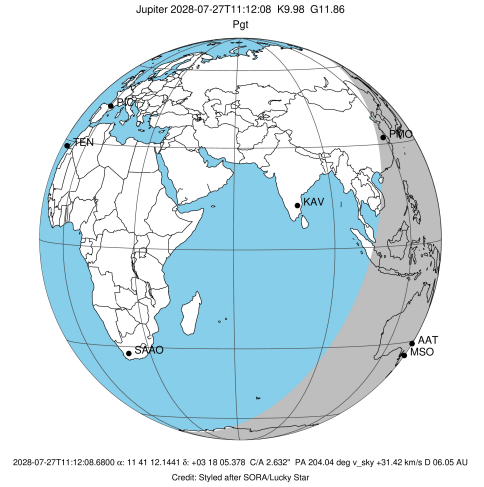


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2028-07-27T10:37:57.706	8.14	-40.90	71491.9	10.03	11.44
Jupiter	E	2028-07-27T11:52:56.662	-7.89x	-56.80	71491.9	7.25	8.28

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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2028-07-27T11:15:27.370
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : MSO
Location              : Mt. Stromlo Observatory
Latitude (deg)        : -35.32000
E. Longitude (deg)    : 149.00833
Altitude (km)         : 0.770
Gaia source ID        : 3800628414340560128
2Mass ID (if available) : 11411223+0318056
ICRS Star Coord at Epoch: 11h 41m 12.14413s +03:18:05.37790s
RUWE (>1.4 is poor)  : 0.78
K magnitude           : 9.977
G magnitude           : 11.858
RP magnitude          : 11.231
BP magnitude          : 12.326
DUPflag              : 0
Distance (au)         : 6.048
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 31.42
Sun-Target sep (deg)  : 49.84
Sun-Moon sep (deg)    : 23.49
B (ring opening deg) : -1.79
PA of pole (deg)      : 25.49
Pole direction: RA (deg): 268.05759
Dec (deg): 64.49659
C/A sky separation (" ) : 2.357
C/A sky separation (km) : 10336.7
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
    
```



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	2028-07-27T10:37:53.401	7.58	-40.64	71491.9	9.68	11.03
Jupiter	E	2028-07-27T11:52:56.565	-7.74x	-55.64	71491.9	6.89	7.87