

target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2049-03-25T15:23:29.470
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3416146927732673920
 2Mass ID (if available) : 05282497+2305202

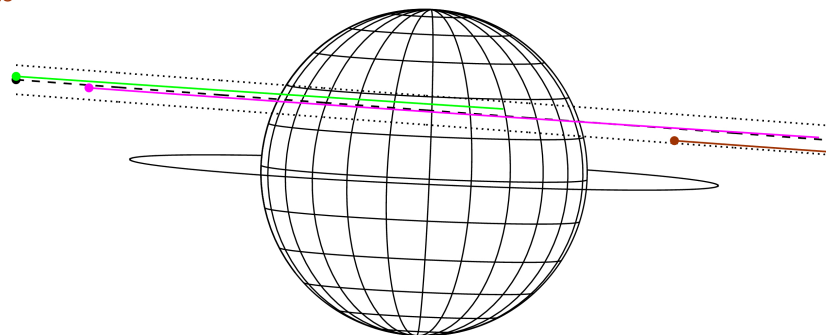
Jupiter 2049-03-25T15:23:29 K8.98 G12.36 Pgt

ICRS Star Coord at Epoch: 05h 28m 24.97395s +23°05'19.80207s
 RUWE (>1.4 is poor) : 1.05
 K magnitude : 8.980
 G magnitude : 12.358
 RP magnitude : 11.395
 BP magnitude : 13.318
 DUPflag : 0
 Distance (au) : 5.254
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 18.79
 Sun-Target sep (deg) : 78.02
 Sun-Moon sep (deg) : 178.74
 B (ring opening deg) : 2.29
 PA of pole (deg) : -2.56
 Pole direction: RA (deg): 268.05741
 Dec (deg): 64.49720
 C/A sky separation (") : 7.159
 C/A sky separation (km) : 27277.7
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk



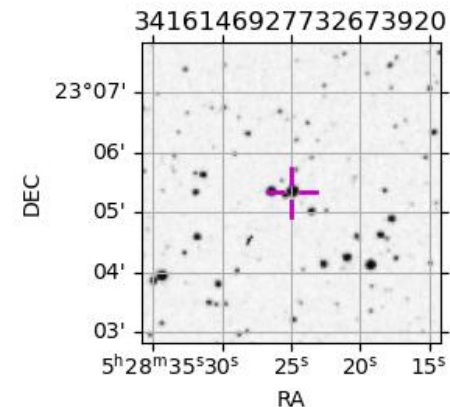
2049-03-25T15:23:29.4700 cc: 05 28 24.9739 s: +23 05 19.802 C/A 7.168" PA 175.75 deg v_sky +18.79 km/s D 05.25 AU
 Credit: Styled after SORA/Lucky Star

Earth
 PMO
 KAV
 SAAO



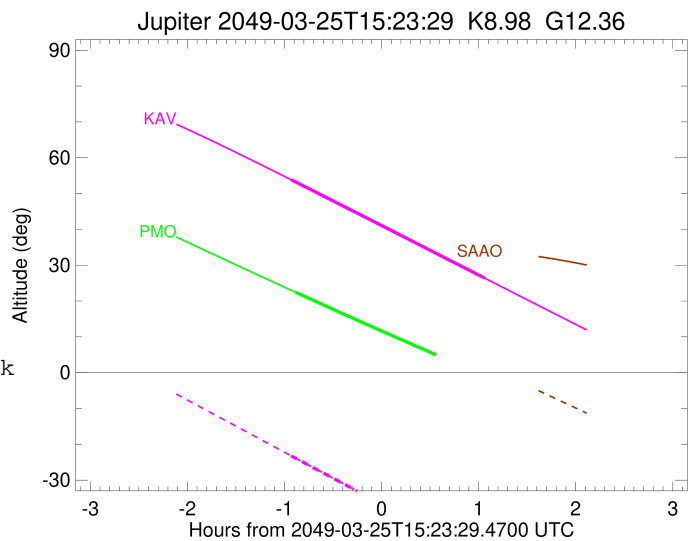
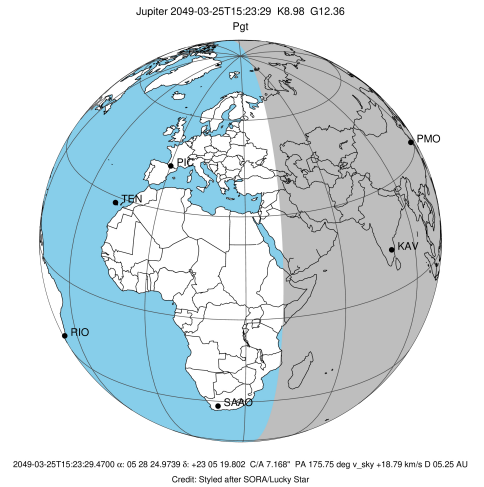
Observable events with sun below -5 deg and altitude above 5 deg

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	+	MAR 25 14:30 - MAR 25 14:30	Pin
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	+ +	MAR 25 14:27 - MAR 25 16:27	Pie
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            : 2049-03-25T15:28:14.890
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      : 3416146927732673920
2Mass ID (if available) : 05282497+2305202
ICRS Star Coord at Epoch: 05h 28m 24.97395s +23:05:19.80207s
RUWE (>1.4 is poor) : 1.05
K magnitude          : 8.980
G magnitude          : 12.358
RP magnitude         : 11.395
BP magnitude         : 13.318
DUPflag             : 0
Distance (au)       : 5.254
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 18.79
Sun-Target sep (deg) : 78.02
Sun-Moon sep (deg)  : 179.62
B (ring opening deg) : 2.29
PA of pole (deg)    : -2.56
Pole direction: RA (deg): 268.05741
Dec (deg): 64.49720
C/A sky separation (" ) : 7.887
C/A sky separation (km) : 30053.8
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
    
```

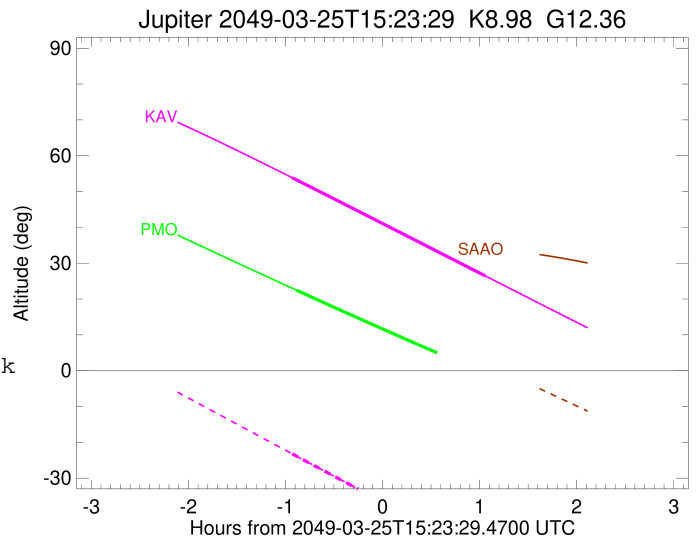
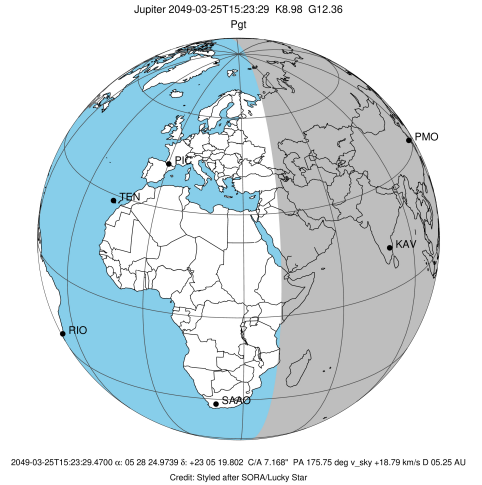


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2049-03-25T14:30:33.453	22.41	-48.55	71490.6	26.07	29.18
Jupiter	E	2049-03-25T16:25:34.891	-0.41x	-55.75	71490.8	23.63	26.54

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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2049-03-25T15:27:37.820
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : KAV
Location             : Kavalur Observatory
Latitude (deg)       : 12.57556
E. Longitude (deg)   : 78.83167
Altitude (km)        : 0.722
Gaia source ID       : 3416146927732673920
2Mass ID (if available) : 05282497+2305202
ICRS Star Coord at Epoch: 05h 28m 24.97395s +23:05:19.80207s
RUWE (>1.4 is poor) : 1.05
K magnitude          : 8.980
G magnitude          : 12.358
RP magnitude         : 11.395
BP magnitude         : 13.318
DUPflag             : 0
Distance (au)        : 5.254
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 18.79
Sun-Target sep (deg) : 78.02
Sun-Moon sep (deg)   : 179.09
B (ring opening deg) : 2.29
PA of pole (deg)     : -2.56
Pole direction: RA (deg): 268.05741
Dec (deg): 64.49720
C/A sky separation (") : 7.004
C/A sky separation (km) : 26688.0
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	2049-03-25T14:27:45.023	53.83	-23.23	71490.9	23.28	26.16
Jupiter	E	2049-03-25T16:27:09.421	26.42	-51.56	71491.1	20.63	23.27