

target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2048-03-25T20:20:16.840
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 55894124571544320
 2Mass ID (if available) : 03244942+1755027

Jupiter 2048-03-25T20:20:16 K8.10 G10.52 Pgt

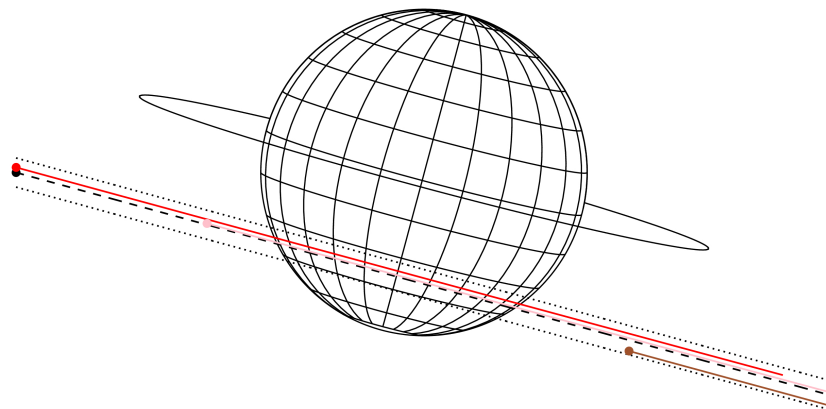
ICRS Star Coord at Epoch: 03h 24m 49.40598s +17:55:01.36873s

RUWE (>1.4 is poor) : 4.03
 K magnitude : 8.097
 G magnitude : 10.516
 RP magnitude : 9.771
 BP magnitude : 11.126
 DUPflag : 0
 Distance (au) : 5.634
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 32.96
 Sun-Target sep (deg) : 48.22
 Sun-Moon sep (deg) : 77.74
 B (ring opening deg) : 2.87
 PA of pole (deg) : -14.98
 Pole direction: RA (deg): 268.05727
 Dec (deg): 64.49723
 C/A sky separation (") : 11.544
 C/A sky separation (km) : 47165.8
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk



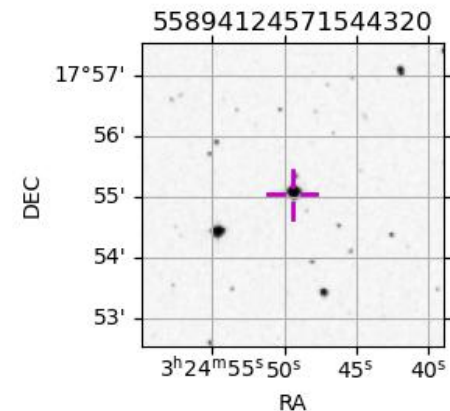
2048-03-25T20:20:16.8400 α: 03 24 49.4060 δ: +17 55 01.369 C/A ***** PA 344.70 deg v_sky +32.96 km/s D 05.63 AU
 Credit: Styled after SORA/Lucky Star

Earth
 PIC
 TEN
 RIO



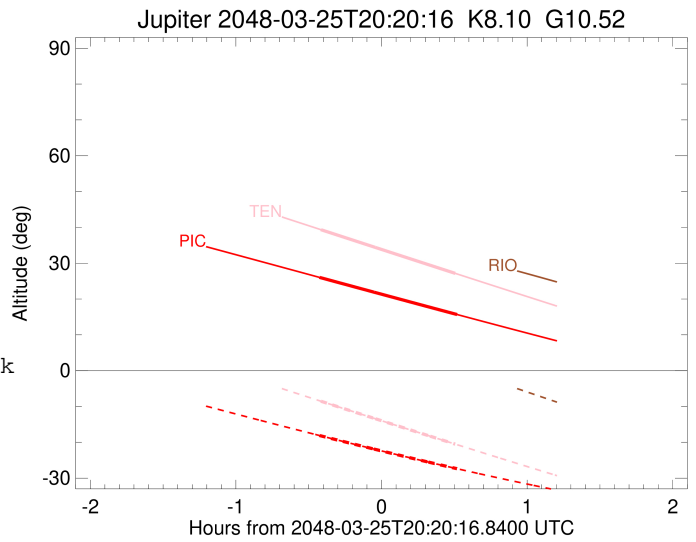
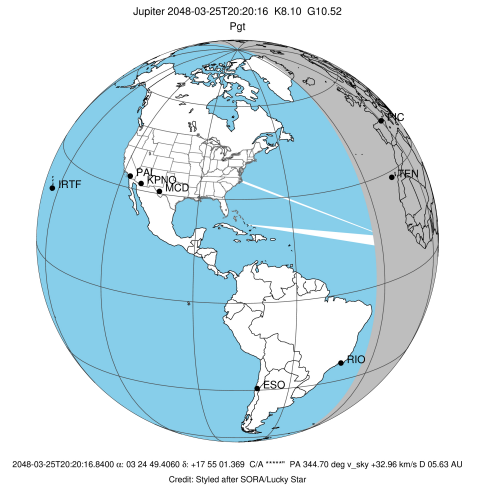
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OEcode
PIC	Pic du Midi	42.9	0.1	+ +	MAR 25 19:54 - MAR 25 20:51	Pie
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 25 19:55 - MAR 25 20:50	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            : 2048-03-25T20:23:04.330
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : 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     : 55894124571544320
2Mass ID (if available) : 03244942+1755027
ICRS Star Coord at Epoch: 03h 24m 49.40598s +17:55:01.36873s
RUWE (>1.4 is poor) : 4.03
K magnitude         : 8.097
G magnitude         : 10.516
RP magnitude        : 9.771
BP magnitude        : 11.126
DUPflag            : 0
Distance (au)      : 5.634
f0 (km)            : 0.00
g0 (km)            : 0.00
skyplane vel. (km/s) : 32.96
Sun-Target sep (deg) : 48.22
Sun-Moon sep (deg)  : 77.92
B (ring opening deg) : 2.87
PA of pole (deg)   : -14.98
Pole direction: RA (deg): 268.05727
Dec (deg): 64.49723
C/A sky separation (") : 10.935
C/A sky separation (km) : 44678.2
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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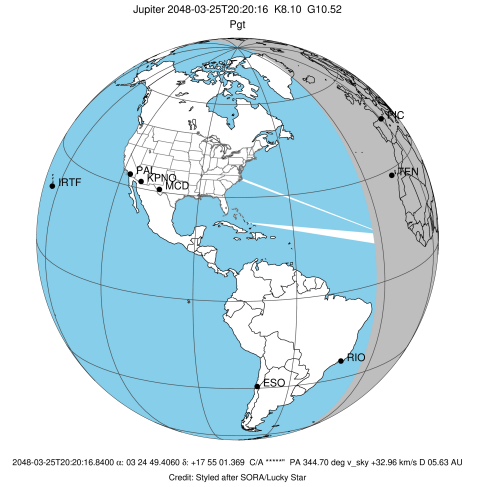


x: target alt < 5.0 deg or sun > -5.0 deg

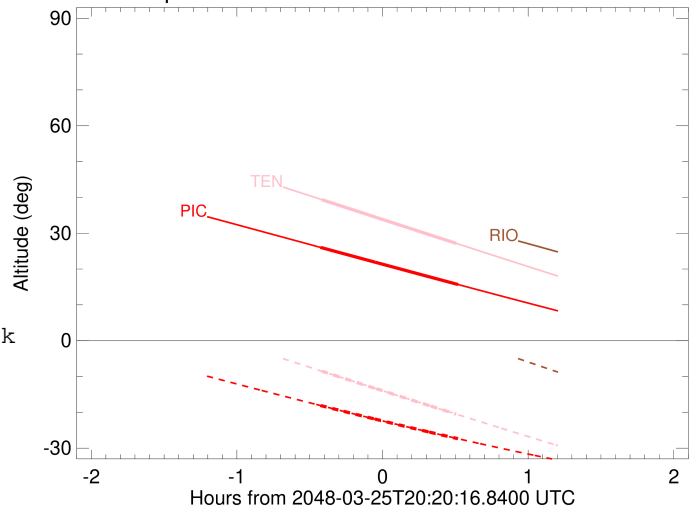
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2048-03-25T19:54:44.948	26.03	-18.10	71487.6	-38.44	-42.13
Jupiter	E	2048-03-25T20:51:21.287	15.68	-27.36	71487.6	-38.78	-42.47

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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2048-03-25T20:22:59.780
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: 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       : 55894124571544320
2Mass ID (if available) : 03244942+1755027
ICRS Star Coord at Epoch: 03h 24m 49.40598s +17:55:01.36873s
RUWE (>1.4 is poor) : 4.03
K magnitude           : 8.097
G magnitude           : 10.516
RP magnitude         : 9.771
BP magnitude         : 11.126
DUPflag              : 0
Distance (au)        : 5.634
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 32.96
Sun-Target sep (deg) : 48.22
Sun-Moon sep (deg)   : 78.10
B (ring opening deg) : 2.87
PA of pole (deg)     : -14.98
Pole direction: RA (deg): 268.05727
Dec (deg): 64.49723
C/A sky separation (") : 11.380
C/A sky separation (km) : 46497.8
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
    
```



Jupiter 2048-03-25T20:20:16 K8.10 G10.52



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	2048-03-25T19:55:19.916	39.35	-8.53	71487.3	-40.28	-43.99
Jupiter	E	2048-03-25T20:50:37.229	27.17	-20.49	71487.2	-40.71	-44.42