

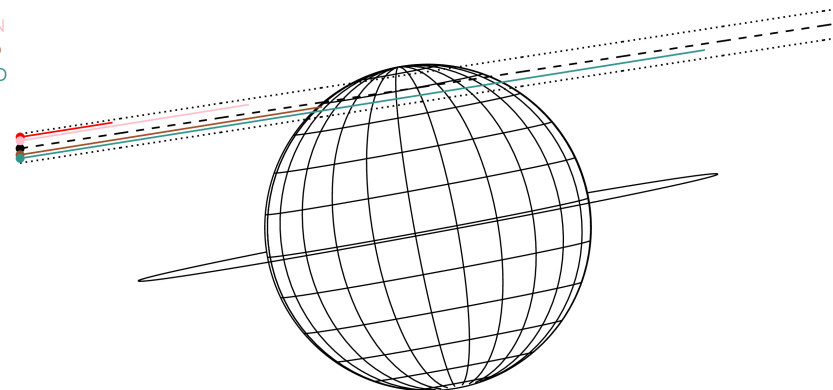
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2026-05-17T23:58:15.340
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 865635132204436480
 2Mass ID (if available) : 07315239+2210074

Jupiter 2026-05-17T23:58:15 K6.42 G9.02 Pgt

ICRS Star Coord at Epoch: 07h 31m 52.38591s +22:10:06.91875s
 RUWE (>1.4 is poor) : 1.04
 K magnitude : 6.419
 G magnitude : 9.024
 RP magnitude : 8.250
 BP magnitude : 9.681
 DUPflag : 0
 Distance (au) : 5.784
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 29.67
 Sun-Target sep (deg) : 54.47
 Sun-Moon sep (deg) : 38.05
 B (ring opening deg) : 1.21
 PA of pole (deg) : 10.45
 Pole direction: RA (deg): 268.05767
 Dec (deg): 64.49668
 C/A sky separation (") : 14.598
 C/A sky separation (km) : 61238.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk



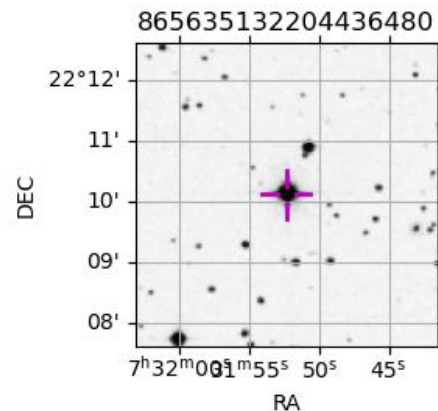
Earth
 PIC
 TEN
 RIO
 ESO



2026-05-17T23:58:15.3400 α: 07 31 52.3859 β: +22 10 06.919 C/A ***** PA 188.70 deg v_sky +29.67 km/s D 05.78 AU
 Credit: Styled after SORA/Lucky Star

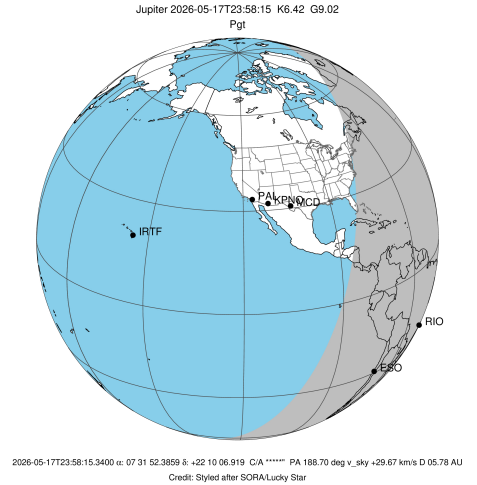
Observable events with sun below -5 deg and altitude above 5 deg

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			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			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	+	MAY 17 23:39 - MAY 17 23:39	Pin
ESO	European Southern Obs. (3.6m)	-29.3	289.3	+	MAY 17 23:37 - MAY 18 00:24	Pie
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

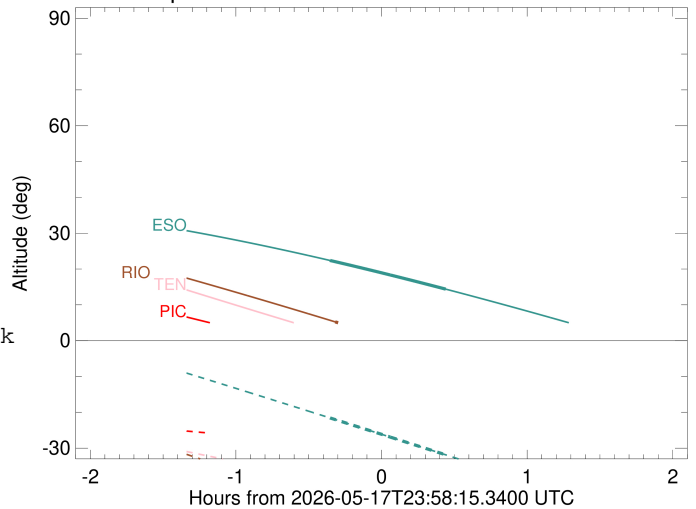


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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-05-18T00:01:30.360
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : RIO
Location            : Rio de Janeiro
Latitude (deg)      : -22.89506
E. Longitude (deg)  : 316.77708
Altitude (km)       : 0.033
Gaia source ID      : 865635132204436480
2Mass ID (if available) : 07315239+2210074
ICRS Star Coord at Epoch: 07h 31m 52.38591s +22:10:06.91875s
RUWE (>1.4 is poor) : 1.04
K magnitude          : 6.419
G magnitude          : 9.024
RP magnitude         : 8.250
BP magnitude         : 9.681
DUPflag             : 0
Distance (au)       : 5.784
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 29.67
Sun-Target sep (deg) : 54.47
Sun-Moon sep (deg)  : 38.85
B (ring opening deg) : 1.21
PA of pole (deg)    : 10.45
Pole direction: RA (deg): 268.05767
Dec (deg): 64.49668
C/A sky separation (" ) : 14.177
C/A sky separation (km) : 59471.4
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
    
```



Jupiter 2026-05-17T23:58:15 K6.42 G9.02

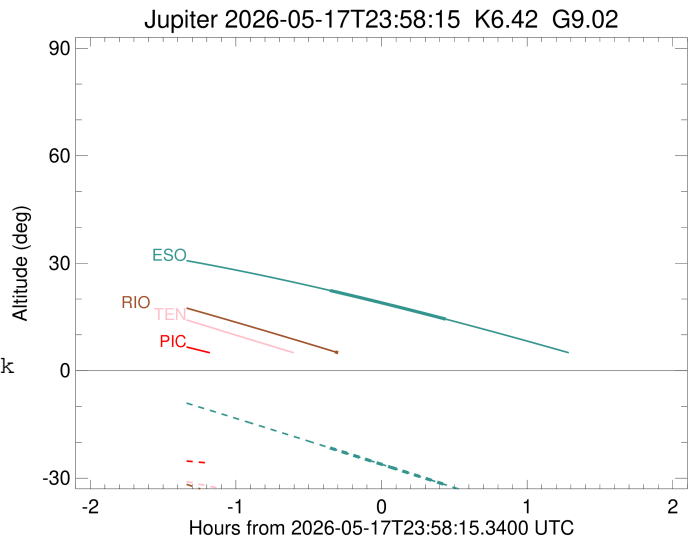
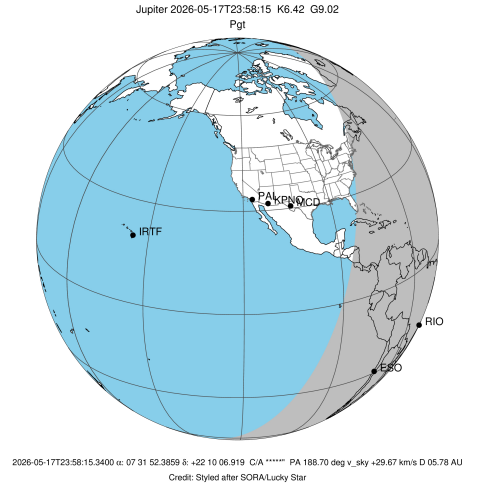


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-05-17T23:39:09.561	5.25	-45.72	71490.6	57.70	60.91
Jupiter	E	2026-05-18T00:23:49.051	-4.15x	-56.00	71490.7	54.84	58.22

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-05-18T00:00:52.380
Event type          : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code       : ESO
Location            : European Southern Obs. (3.6m)
Latitude (deg)      : -29.26097
E. Longitude (deg)  : 289.26831
Altitude (km)       : 2.400
Gaia source ID      : 865635132204436480
2Mass ID (if available) : 07315239+2210074
ICRS Star Coord at Epoch: 07h 31m 52.38591s +22:10:06.91875s
RUWE (>1.4 is poor) : 1.04
K magnitude          : 6.419
G magnitude          : 9.024
RP magnitude        : 8.250
BP magnitude        : 9.681
DUPflag             : 0
Distance (au)       : 5.784
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 29.67
Sun-Target sep (deg) : 54.47
Sun-Moon sep (deg)  : 38.93
B (ring opening deg) : 1.21
PA of pole (deg)    : 10.45
Pole direction: RA (deg): 268.05767
Dec (deg): 64.49668
C/A sky separation (" ) : 13.777
C/A sky separation (km) : 57793.3
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	2026-05-17T23:37:02.129	22.39	-21.56	71490.6	55.37	58.72
Jupiter	E	2026-05-18T00:24:40.677	14.39	-31.86	71490.7	52.48	55.97