

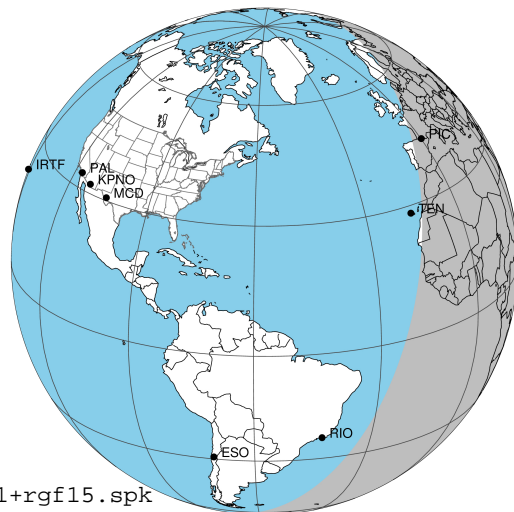
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2026-05-20T19:31:26.420
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 865598504723245056
 2Mass ID (if available) : 07335625+2205392

Jupiter 2026-05-20T19:31:26 K9.59 G10.51 Pgt

ICRS Star Coord at Epoch: 07h 33m 56.24528s +22:05:39.08986s

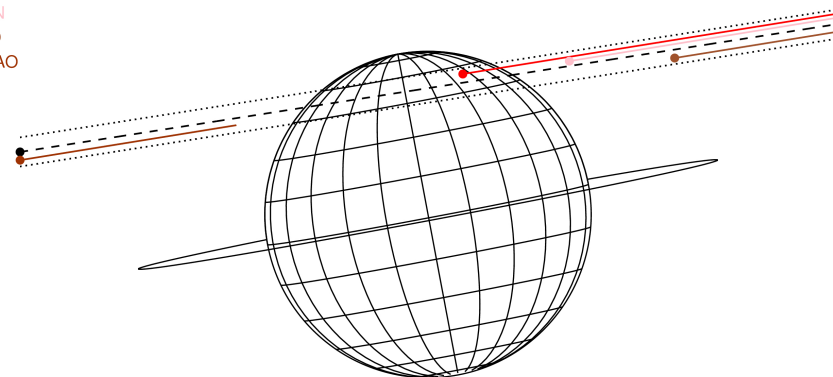
RUWE (>1.4 is poor) : 1.34
 K magnitude : 9.591
 G magnitude : 10.514
 RP magnitude : 10.177
 BP magnitude : 10.709
 DUPflag : 0
 Distance (au) : 5.820
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 30.60
 Sun-Target sep (deg) : 52.24
 Sun-Moon sep (deg) : 4.56
 B (ring opening deg) : 1.19
 PA of pole (deg) : 10.66
 Pole direction: RA (deg): 268.05767
 Dec (deg): 64.49668
 C/A sky separation (") : 12.952
 C/A sky separation (km) : 54675.6
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2026-05-20T19:31:26 K9.59 G10.51
 Pgt



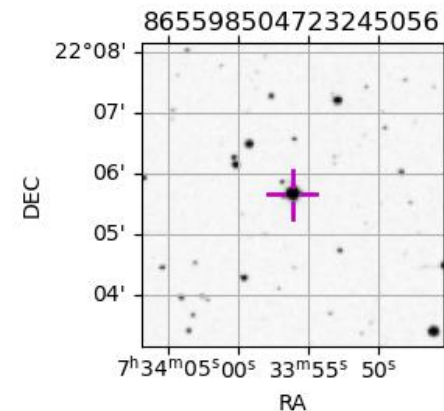
2026-05-20T19:31:26.4200 α: 07 33 56.2453 δ: +22 05 39.090 C/A ***** PA 188.89 deg v_sky +30.60 km/s D 05.82 AU
 Credit: Styled after SORA/Lucky Star

Earth
 PIC
 TEN
 RIO
 SAAO



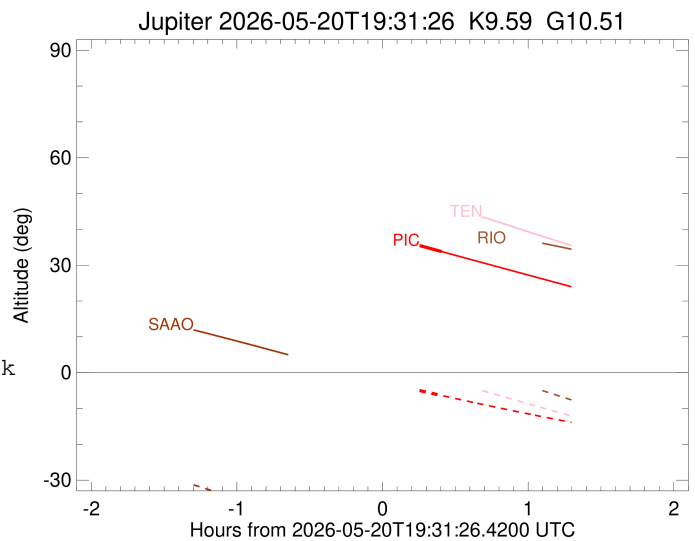
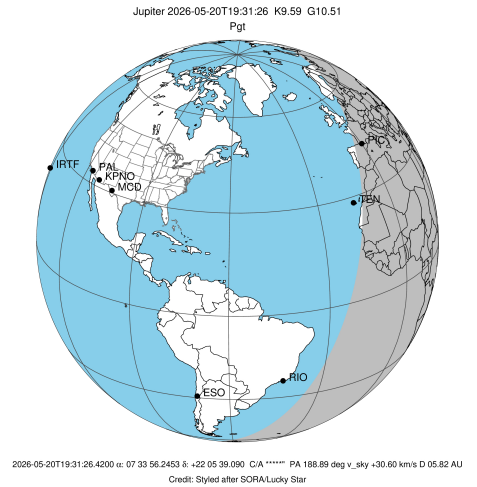
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OCode
PIC	Pic du Midi	42.9	0.1	+	MAY 20 19:55 - MAY 20 19:55	Pne
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			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            : 2026-05-20T19:33:10.200
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     : 865598504723245056
2Mass ID (if available) : 07335625+2205392
ICRS Star Coord at Epoch: 07h 33m 56.24528s +22:05:39.08986s
RUWE (>1.4 is poor) : 1.34
K magnitude        : 9.591
G magnitude        : 10.514
RP magnitude       : 10.177
BP magnitude       : 10.709
DUPflag           : 0
Distance (au)     : 5.820
f0 (km)           : 0.00
g0 (km)           : 0.00
skyplane vel. (km/s) : 30.60
Sun-Target sep (deg) : 52.24
Sun-Moon sep (deg) : 3.83
B (ring opening deg) : 1.19
PA of pole (deg)  : 10.66
Pole direction: RA (deg): 268.05767
Dec (deg): 64.49668
C/A sky separation (") : 13.820
C/A sky separation (km) : 58340.2
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
    
```



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	2026-05-20T19:10:32.267	42.10	0.74x	71490.6	56.19	59.49
Jupiter	E	2026-05-20T19:55:46.573	33.80	-6.37	71490.7	53.17	56.63