

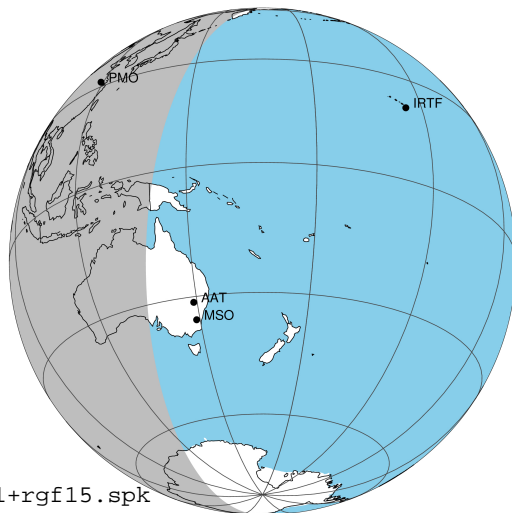
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2043-02-19T20:44:24.980
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 4068707319342612096
 2Mass ID (if available) : 17510661-2258063

Jupiter 2043-02-19T20:44:24 K7.76 G12.69 Pgt

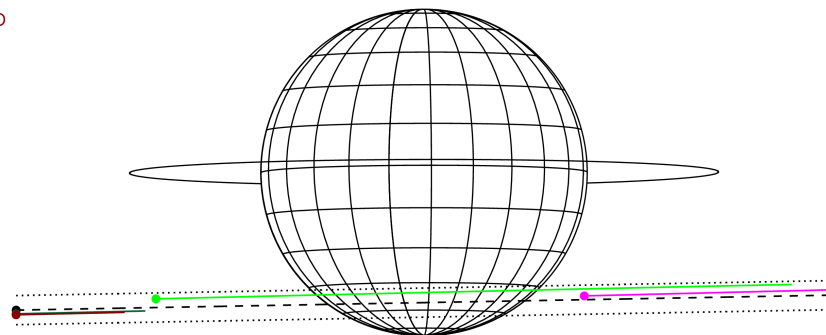
ICRS Star Coord at Epoch: 17h 51m 06.62519s -22:58:06.34189s

RUWE (>1.4 is poor) : 0.88
 K magnitude : 7.759
 G magnitude : 12.691
 RP magnitude : 11.429
 BP magnitude : 14.466
 DUPflag : 0
 Distance (au) : 5.690
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 26.91
 Sun-Target sep (deg) : 62.55
 Sun-Moon sep (deg) : 165.74
 B (ring opening deg) : -2.53
 PA of pole (deg) : 0.12
 Pole direction: RA (deg): 268.05662
 Dec (deg): 64.49732
 C/A sky separation (") : 13.812
 C/A sky separation (km) : 56993.9
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2043-02-19T20:44:24 K7.76 G12.69
 Pgt



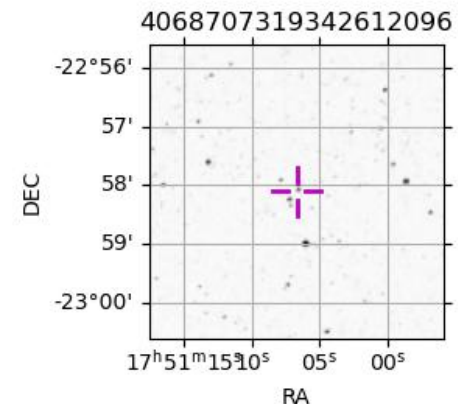
Earth
 PMO
 KAV
 AAT
 MSO



2043-02-19T20:44:24.9800 α: 17 51 06.6252 δ: -22 58 06.342 C/A ***** PA 1.05 deg v_sky +26.91 km/s D 05.69 AU
 Credit: Styled after SORA/Lucky Star

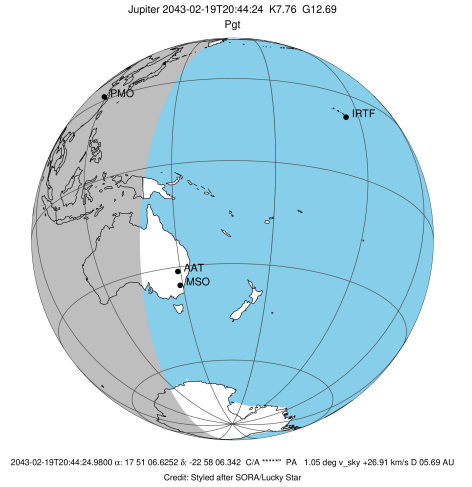
Observable events with sun below -5 deg and altitude above 5 deg

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	+ +	FEB 19 20:11 - FEB 19 21:12	Pie
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

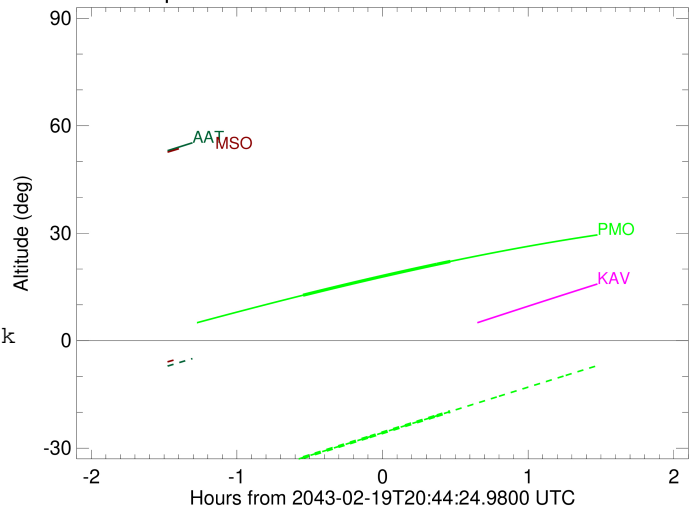


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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-02-19T20:41:58.880
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : PMO
Location            : Purple Mtn Obs. Nanking
Latitude (deg)      : 32.06667
E. Longitude (deg)  : 118.82089
Altitude (km)       : 0.364
Gaia source ID      : 4068707319342612096
2Mass ID (if available) : 17510661-2258063
ICRS Star Coord at Epoch: 17h 51m 06.62519s -22:58:06.34189s
RUWE (>1.4 is poor) : 0.88
K magnitude          : 7.759
G magnitude          : 12.691
RP magnitude         : 11.429
BP magnitude         : 14.466
DUPflag             : 0
Distance (au)       : 5.690
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 26.91
Sun-Target sep (deg) : 62.55
Sun-Moon sep (deg)  : 166.63
B (ring opening deg) : -2.53
PA of pole (deg)    : 0.12
Pole direction: RA (deg): 268.05662
Dec (deg): 64.49732
C/A sky separation (") : 12.742
C/A sky separation (km) : 52577.3
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
    
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Jupiter 2043-02-19T20:44:24 K7.76 G12.69



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	2043-02-19T20:11:44.070	12.69	-32.62	71487.1	-48.49	-52.12
Jupiter	E	2043-02-19T21:12:17.033	22.11	-19.79	71487.4	-46.11	-49.80