

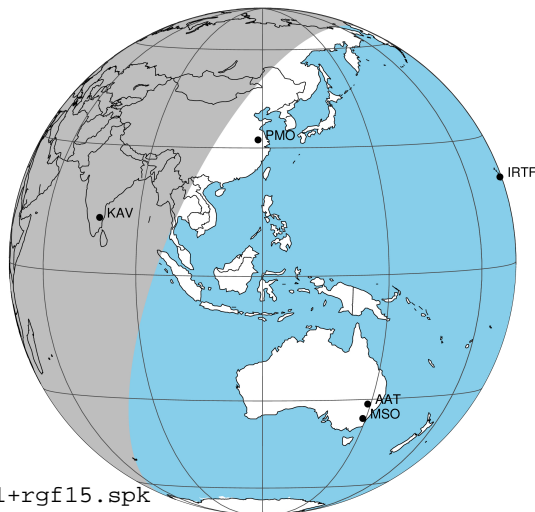
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2027-11-23T23:28:18.240
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3800709129661406336
 2Mass ID (if available) : 11375580+0335041

Jupiter 2027-11-23T23:28:18 K9.37 G10.94 Pgt

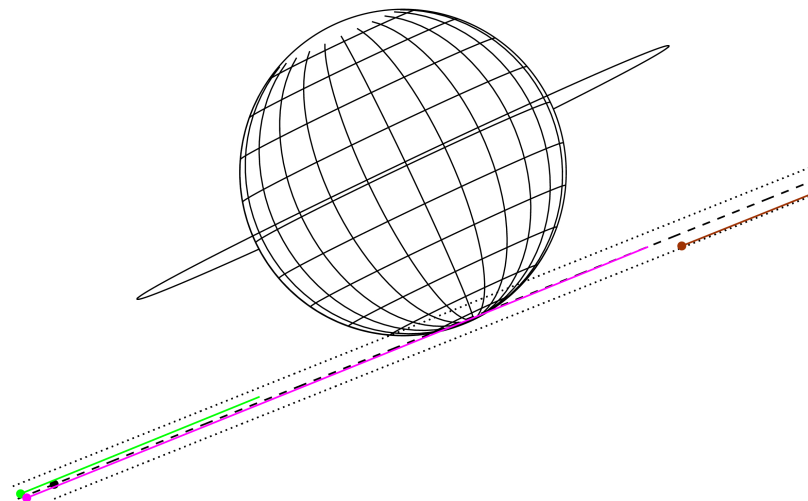
ICRS Star Coord at Epoch: 11h 37m 55.74585s +03:35:03.79622s

RUWE (>1.4 is poor) : 0.82
 K magnitude : 9.374
 G magnitude : 10.944
 RP magnitude : 10.397
 BP magnitude : 11.329
 DUPflag : 0
 Distance (au) : 5.716
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 23.54
 Sun-Target sep (deg) : 67.54
 Sun-Moon sep (deg) : 16.67
 B (ring opening deg) : -1.70
 PA of pole (deg) : 25.46
 Pole direction: RA (deg): 268.05762
 Dec (deg): 64.49662
 C/A sky separation (") : 16.900
 C/A sky separation (km) : 70061.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2027-11-23T23:28:18 K9.37 G10.94
 Pgt



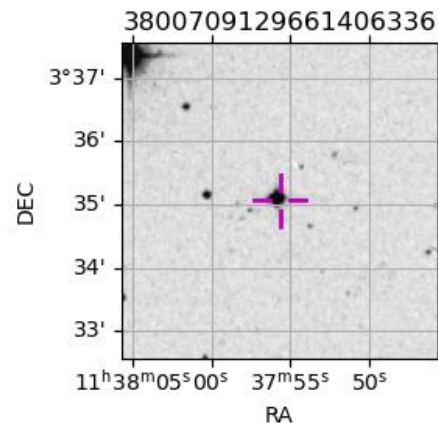
Earth
 PMO
 KAV
 SAAO



2027-11-23T23:28:18.2400 a: 11 37 55.7459 s: +03 35 03.796 C/A ***** PA 21.81 deg v_sky +23.54 km/s D 05.72 AU
 Credit: Styled after SORA/Lucky Star

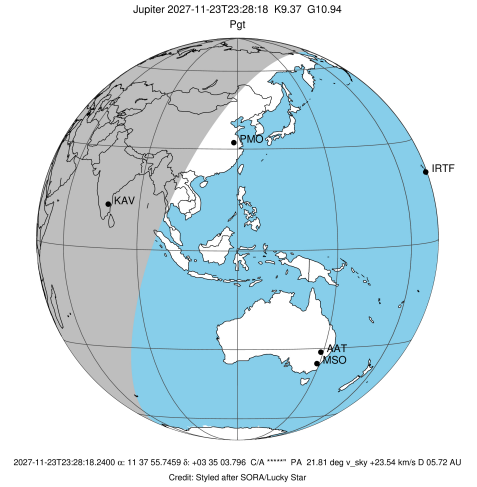
Observable events with sun below -5 deg and altitude above 5 deg

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	+ +	NOV 23 23:17 - NOV 23 23:33	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

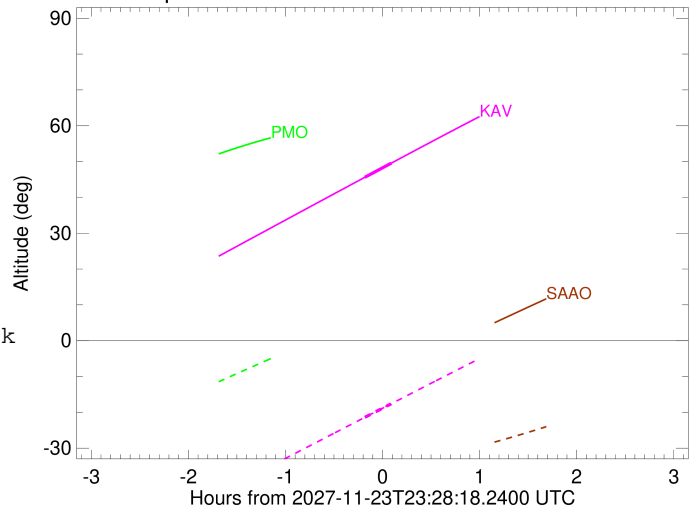


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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2027-11-23T23:25:30.820
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : KAV
Location             : Kavalur Observatory
Latitude (deg)       : 12.57556
E. Longitude (deg)   : 78.83167
Altitude (km)        : 0.722
Gaia source ID       : 3800709129661406336
2Mass ID (if available) : 11375580+0335041
ICRS Star Coord at Epoch: 11h 37m 55.74585s +03:35:03.79622s
RUWE (>1.4 is poor) : 0.82
K magnitude          : 9.374
G magnitude          : 10.944
RP magnitude         : 10.397
BP magnitude         : 11.329
DUPflag             : 0
Distance (au)        : 5.716
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 23.54
Sun-Target sep (deg) : 67.54
Sun-Moon sep (deg)   : 17.44
B (ring opening deg) : -1.70
PA of pole (deg)     : 25.46
Pole direction: RA (deg): 268.05762
Dec (deg): 64.49662
C/A sky separation (") : 17.027
C/A sky separation (km) : 70587.0
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
    
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Jupiter 2027-11-23T23:28:18 K9.37 G10.94



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	2027-11-23T23:17:23.324	45.60	-21.40	71488.2	-77.39	-78.84
Jupiter	E	2027-11-23T23:33:38.537	49.53	-17.62	71488.1	-84.03	-84.73