

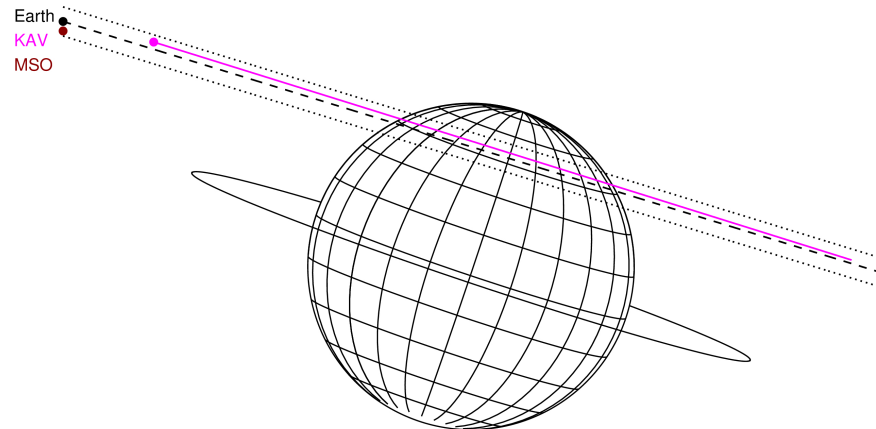
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2035-06-28T22:39:59.600
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 32996588763444736
 2Mass ID (if available) : 02421120+1436071

Jupiter 2035-06-28T22:39:59 K6.23 G8.61 Pgt

ICRS Star Coord at Epoch: 02h 42m 11.19370s +14:36:06.71397s
 RUWE (>1.4 is poor) : 1.26
 K magnitude : 6.227
 G magnitude : 8.613
 RP magnitude : 7.873
 BP magnitude : 9.213
 DUPflag : 0
 Distance (au) : 5.495
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 30.75
 Sun-Target sep (deg) : 53.94
 Sun-Moon sep (deg) : 34.06
 B (ring opening deg) : 3.09
 PA of pole (deg) : -18.54
 Pole direction: RA (deg): 268.05639
 Dec (deg): 64.49680
 C/A sky separation (") : 12.587
 C/A sky separation (km) : 50159.4
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

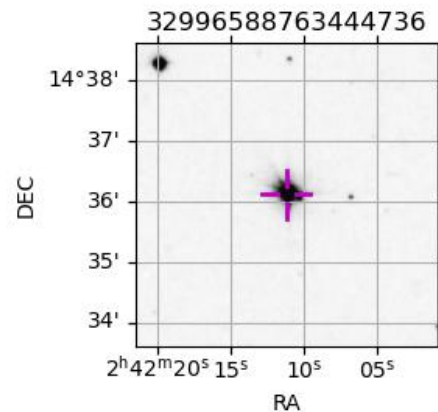


2035-06-28T22:39:59.6000 α: 02 42 11.1937 β: +14 36 06.714 C/A ***** PA 162.94 deg v_sky +30.75 km/s D 05.49 AU
 Credit: Styled after SORA/Lucky Star



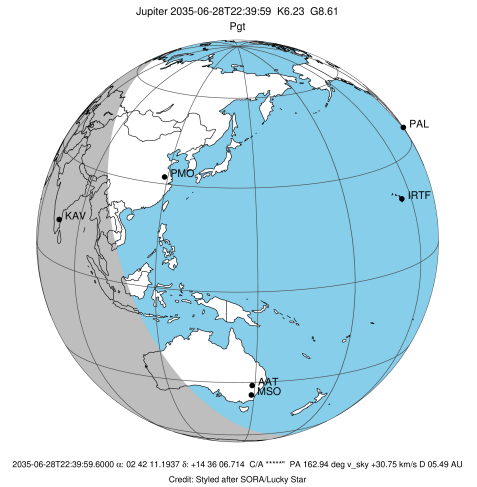
Observable events with sun below -5 deg and altitude above 5 deg

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	+ +	JUN 28 22:10 - JUN 28 23:03	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

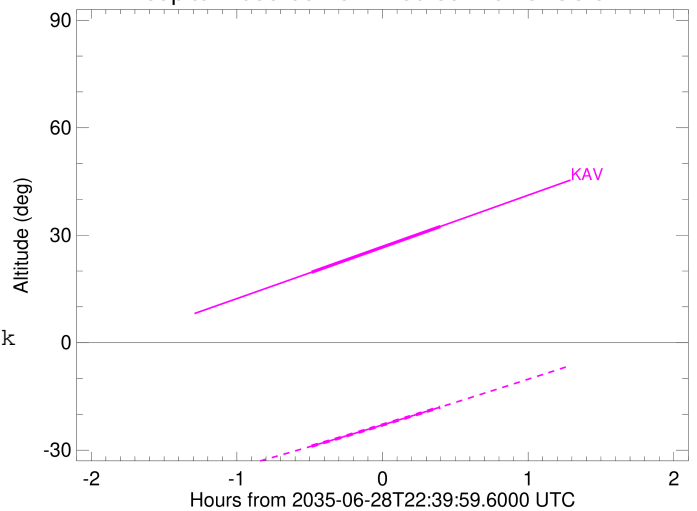


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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2035-06-28T22:37:17.800
Event type          : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code       : KAV
Location           : Kavalur Observatory
Latitude (deg)     : 12.57556
E. Longitude (deg) : 78.83167
Altitude (km)      : 0.722
Gaia source ID     : 32996588763444736
2Mass ID (if available) : 02421120+1436071
ICRS Star Coord at Epoch: 02h 42m 11.19370s +14:36:06.71397s
RUWE (>1.4 is poor) : 1.26
K magnitude         : 6.227
G magnitude         : 8.613
RP magnitude        : 7.873
BP magnitude        : 9.213
DUPflag            : 0
Distance (au)      : 5.495
f0 (km)            : 0.00
g0 (km)            : 0.00
skyplane vel. (km/s) : 30.75
Sun-Target sep (deg) : 53.94
Sun-Moon sep (deg)  : 33.67
B (ring opening deg) : 3.09
PA of pole (deg)   : -18.54
Pole direction: RA (deg): 268.05639
Dec (deg): 64.49680
C/A sky separation (" ) : 13.168
C/A sky separation (km) : 52476.4
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
    
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Jupiter 2035-06-28T22:39:59 K6.23 G8.61



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	2035-06-28T22:10:53.115	19.69	-28.86	71485.2	45.95	49.64
Jupiter	E	2035-06-28T23:03:45.252	32.41	-18.00	71484.7	48.32	51.95