

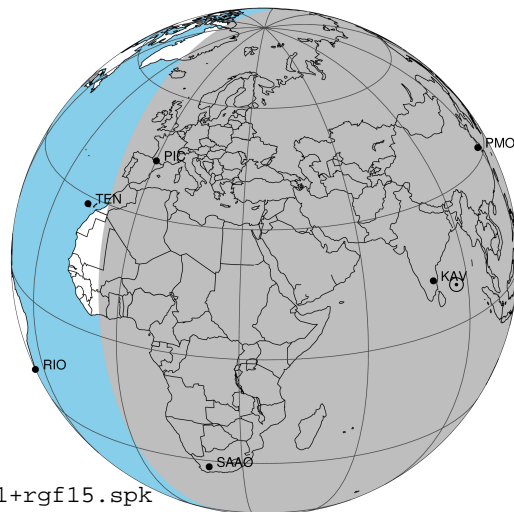
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2026-02-23T18:29:18.680
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3368420568239975424
 2Mass ID (if available) : 07054332+2254410

Jupiter 2026-02-23T18:29:18 K9.10 G12.14 Pgt

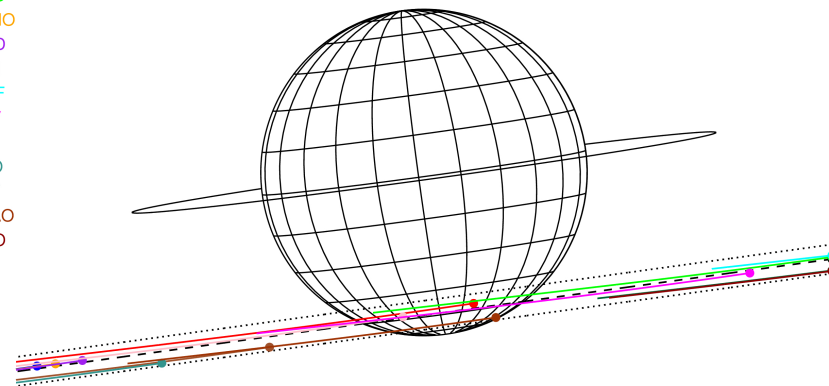
ICRS Star Coord at Epoch: 07h 05m 43.13981s +22:54:43.94617s

RUWE (>1.4 is poor) : 1.04
 K magnitude : 9.096
 G magnitude : 12.141
 RP magnitude : 11.158
 BP magnitude : 13.129
 DUPflag : 0
 Distance (au) : 4.536
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : -6.84
 Sun-Target sep (deg) : 130.31
 Sun-Moon sep (deg) : 50.34
 B (ring opening deg) : 1.43
 PA of pole (deg) : 7.80
 Pole direction: RA (deg): 268.05769
 Dec (deg): 64.49669
 C/A sky separation (") : 18.828
 C/A sky separation (km) : 61946.3
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2026-02-23T18:29:18 K9.10 G12.14
 Pgt



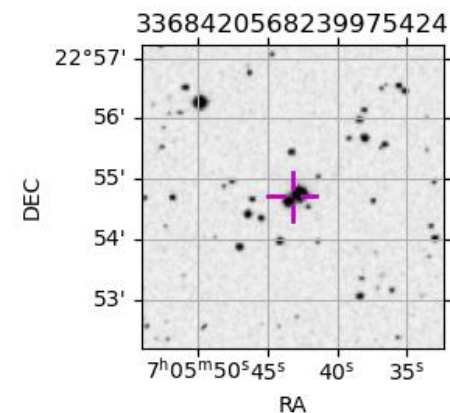
Earth
 PIC
 PAL
 PMO
 KPNO
 MCD
 TEN
 IRTF
 KAV
 RIO
 ESO
 AAT
 SAAO
 MSO



2026-02-23T18:29:18.6800 α: 07 05 43.1398 δ: +22 54 43.946 C/A ***** PA 7.85 deg v_sky - 6.84 km/s D 04.54 AU
 Credit: Styled after SORA/Lucky Star

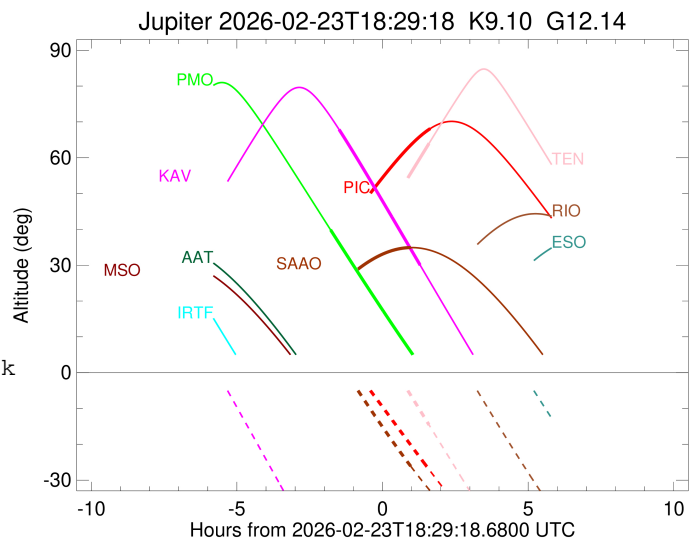
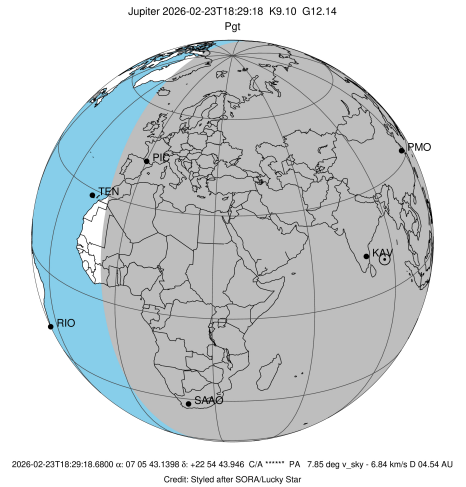
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OEcode
PIC	Pic du Midi	42.9	0.1	+	FEB 23 20:07 - FEB 23 20:07	Pne
PAL	Palomar Mt (200")	33.4	243.1			Pnn
PMO	Purple Mtn Obs. Nanking	32.1	118.8	+	FEB 23 16:42 - FEB 23 16:42	Pin
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	+	FEB 23 20:05 - FEB 23 20:05	Pne
IRTF	Mauna Kea/IRTF	19.8	204.5			Pnn
KAV	Kavalur Observatory	12.6	78.8	+ +	FEB 23 16:59 - FEB 23 19:46	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	+	FEB 23 19:27 - FEB 23 19:27	Pne
MSO	Mt. Stromlo Observatory	-35.3	149.0			Pnn



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-02-23T18:35:46.830
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     : 3368420568239975424
2Mass ID (if available) : 07054332+2254410
ICRS Star Coord at Epoch: 07h 05m 43.13980s +22:54:43.94617s
RUWE (>1.4 is poor) : 1.04
K magnitude        : 9.096
G magnitude        : 12.141
RP magnitude       : 11.158
BP magnitude       : 13.129
DUPflag           : 0
Distance (au)     : 4.537
f0 (km)           : 0.00
g0 (km)           : 0.00
skyplane vel. (km/s) : -6.84
Sun-Target sep (deg) : 130.31
Sun-Moon sep (deg) : 50.65
B (ring opening deg) : 1.43
PA of pole (deg)  : 7.80
Pole direction: RA (deg): 268.05769
Dec (deg): 64.49669
C/A sky separation (" ) : 18.193
C/A sky separation (km) : 59858.3
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
    
```

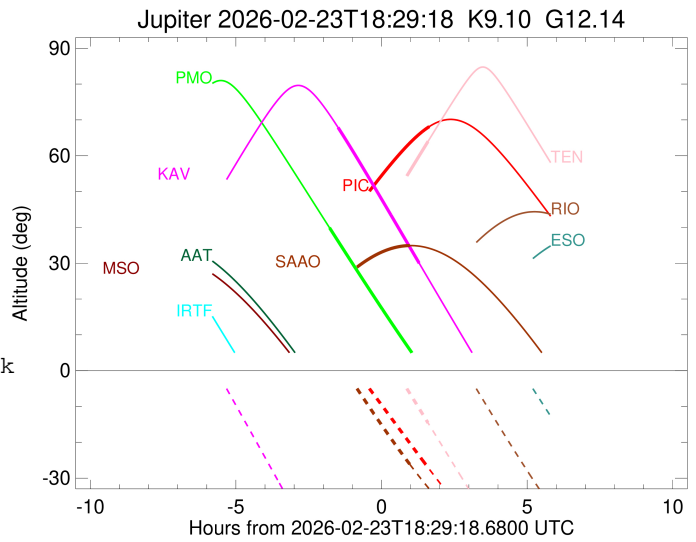
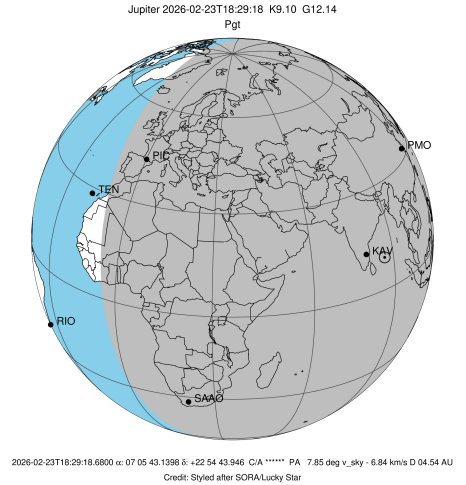


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-02-23T17:03:27.395	39.06	5.84x	71490.1	-56.29	-59.59
Jupiter	E	2026-02-23T20:07:34.263	68.11	-27.46	71490.0	-56.93	-60.19

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2026-02-23T18:20:38.830
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       : 3368420568239975424
2Mass ID (if available) : 07054332+2254410
ICRS Star Coord at Epoch: 07h 05m 43.13981s +22:54:43.94617s
RUWE (>1.4 is poor) : 1.04
K magnitude           : 9.096
G magnitude           : 12.141
RP magnitude          : 11.158
BP magnitude          : 13.129
DUPflag              : 0
Distance (au)        : 4.536
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : -6.84
Sun-Target sep (deg) : 130.31
Sun-Moon sep (deg)   : 51.02
B (ring opening deg) : 1.43
PA of pole (deg)     : 7.80
Pole direction: RA (deg): 268.05769
Dec (deg): 64.49669
C/A sky separation (") : 17.774
C/A sky separation (km) : 58478.8
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
    
```

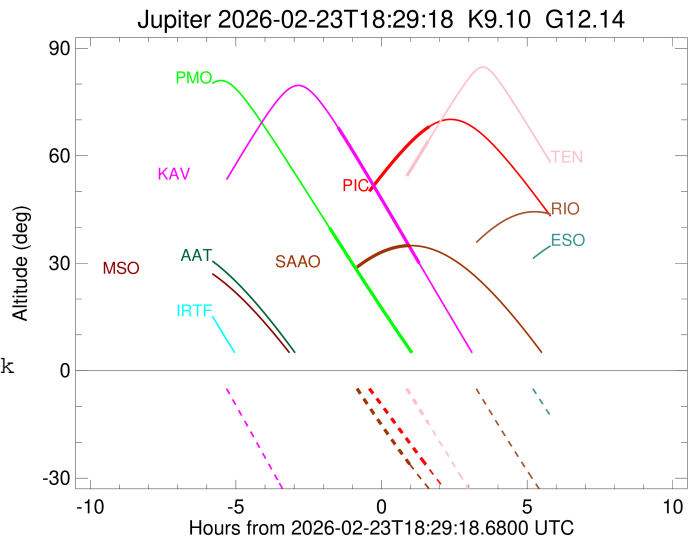
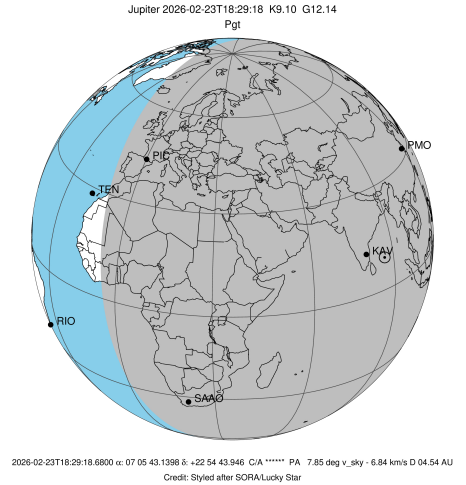


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-02-23T16:42:24.396	39.85	-67.05	71490.1	-56.13	-59.43
Jupiter	E	2026-02-23T20:01:29.843	-0.66x	-33.90	71490.2	-53.67	-57.11

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-02-23T18:38:24.780
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : TEN
Location            : Teide Obs./Tenerife
Latitude (deg)      : 28.30050
E. Longitude (deg)  : 343.48909
Altitude (km)       : 2.395
Gaia source ID      : 3368420568239975424
2Mass ID (if available) : 07054332+2254410
ICRS Star Coord at Epoch: 07h 05m 43.13980s +22:54:43.94617s
RUWE (>1.4 is poor) : 1.04
K magnitude          : 9.096
G magnitude          : 12.141
RP magnitude         : 11.158
BP magnitude         : 13.129
DUPflag             : 0
Distance (au)       : 4.537
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : -6.84
Sun-Target sep (deg) : 130.31
Sun-Moon sep (deg)  : 50.40
B (ring opening deg) : 1.43
PA of pole (deg)    : 7.80
Pole direction: RA (deg): 268.05769
Dec (deg): 64.49669
C/A sky separation (") : 18.600
C/A sky separation (km) : 61197.6
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
    
```

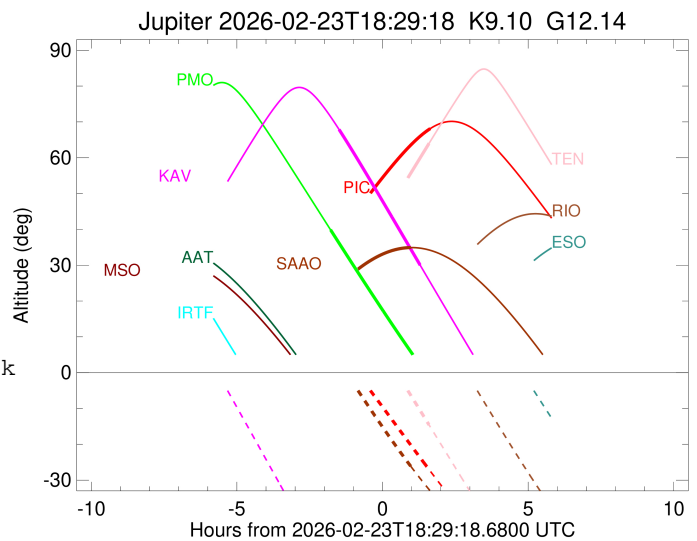
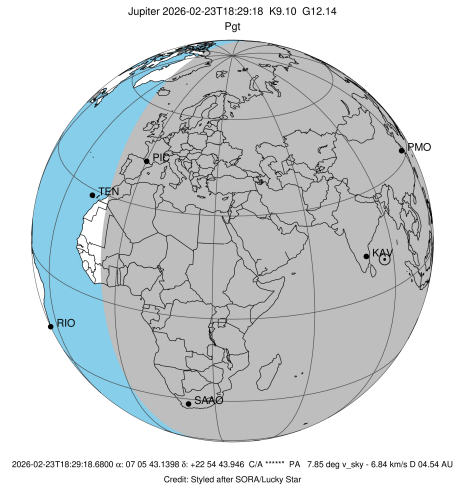


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-02-23T17:10:40.040	25.70	22.56x	71490.0	-57.91	-61.11
Jupiter	E	2026-02-23T20:05:09.174	63.98	-14.57	71489.9	-59.34	-62.44

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-02-23T18:22:38.200
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      : 3368420568239975424
2Mass ID (if available) : 07054332+2254410
ICRS Star Coord at Epoch: 07h 05m 43.13981s +22:54:43.94617s
RUWE (>1.4 is poor) : 1.04
K magnitude          : 9.096
G magnitude          : 12.141
RP magnitude         : 11.158
BP magnitude         : 13.129
DUPflag             : 0
Distance (au)       : 4.536
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : -6.84
Sun-Target sep (deg) : 130.31
Sun-Moon sep (deg)  : 51.33
B (ring opening deg) : 1.43
PA of pole (deg)    : 7.80
Pole direction: RA (deg): 268.05769
Dec (deg): 64.49669
C/A sky separation (" ) : 18.823
C/A sky separation (km) : 61930.9
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
    
```

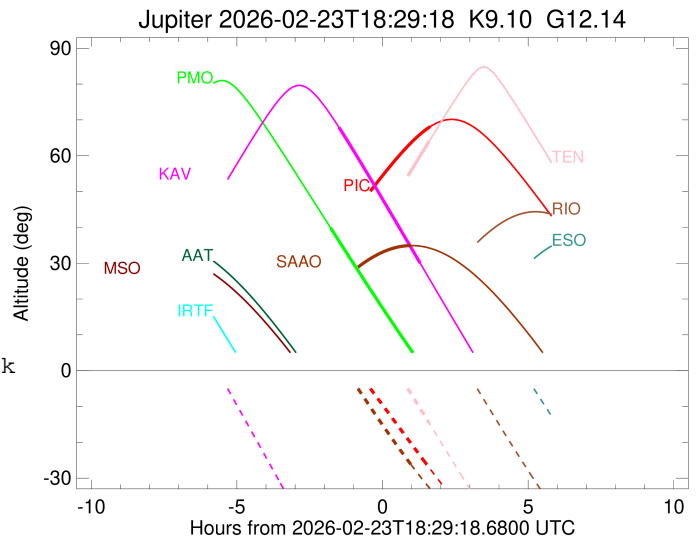
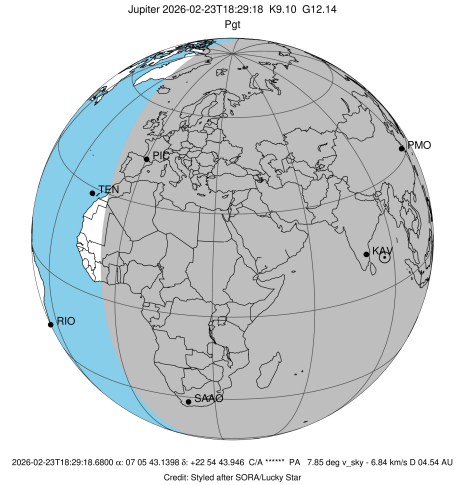


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-02-23T16:59:48.999	67.87	-60.89	71489.9	-61.09	-64.07
Jupiter	E	2026-02-23T19:46:55.625	30.01	-77.64	71490.0	-58.63	-61.79

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2026-02-23T18:31:10.350
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : SAAO
Location              : So. Afr. Astro. Obs. (Sutherland)
Latitude (deg)        : -32.37953
E. Longitude (deg)    : 20.81070
Altitude (km)         : 1.768
Gaia source ID        : 3368420568239975424
2Mass ID (if available) : 07054332+2254410
ICRS Star Coord at Epoch: 07h 05m 43.13980s +22:54:43.94617s
RUWE (>1.4 is poor) : 1.04
K magnitude           : 9.096
G magnitude           : 12.141
RP magnitude          : 11.158
BP magnitude          : 13.129
DUPflag              : 0
Distance (au)         : 4.536
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : -6.84
Sun-Target sep (deg)  : 130.31
Sun-Moon sep (deg)   : 50.75
B (ring opening deg) : 1.43
PA of pole (deg)     : 7.80
Pole direction: RA (deg): 268.05769
Dec (deg): 64.49669
C/A sky separation (") : 20.438
C/A sky separation (km) : 67243.8
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	2026-02-23T17:34:40.095	28.45	-4.14x	71489.5	-70.02	-72.24
Jupiter	E	2026-02-23T19:27:38.638	34.91	-26.15	71489.5	-69.88	-72.11