

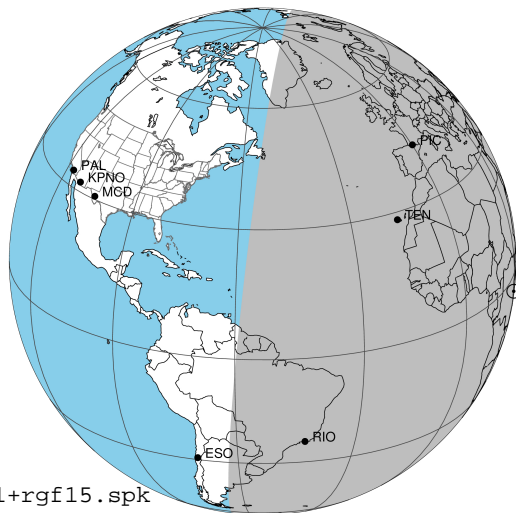
target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2026-04-01T22:02:29.780
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 3368243031473718272
 2Mass ID (if available) : 07072052+2254388

Jupiter 2026-04-01T22:02:29 K8.90 G10.98 Pgt

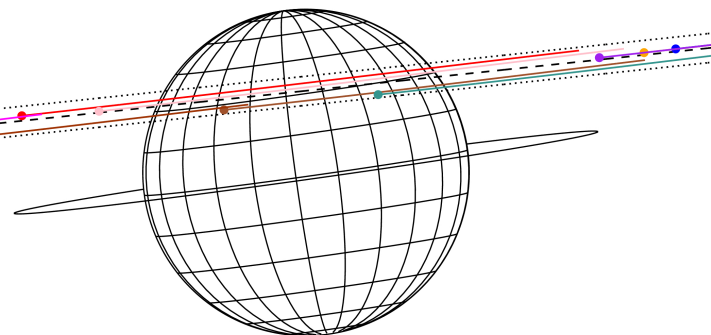
ICRS Star Coord at Epoch: 07h 07m 20.52137s +22:54:38.73599s

RUWE (>1.4 is poor) : 1.11
 K magnitude : 8.901
 G magnitude : 10.980
 RP magnitude : 10.325
 BP magnitude : 11.479
 DUPflag : 0
 Distance (au) : 5.085
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 10.43
 Sun-Target sep (deg) : 93.65
 Sun-Moon sep (deg) : 84.34
 B (ring opening deg) : 1.38
 PA of pole (deg) : 7.97
 Pole direction: RA (deg): 268.05768
 Dec (deg): 64.49668
 C/A sky separation (") : 9.653
 C/A sky separation (km) : 35603.1
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2026-04-01T22:02:29 K8.90 G10.98
 Pgt



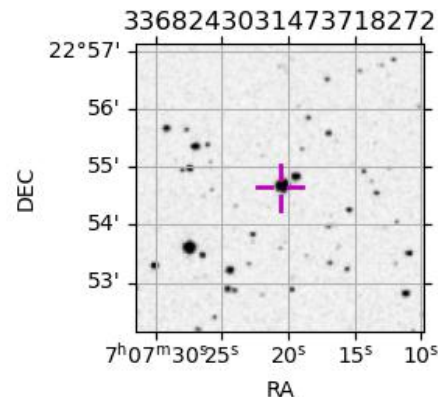
Earth
 PIC
 PAL
 KPNO
 MCD
 TEN
 KAV
 RIO
 ESO
 SAAO



2026-04-01T22:02:29.7800 ex: 07 07 20.5214 d: +22 54 38.736 C/A 9.653 PA 186.04 deg v_sky +10.43 km/s D 05.09 AU
 Credit: Styled after SORA/Lucky Star

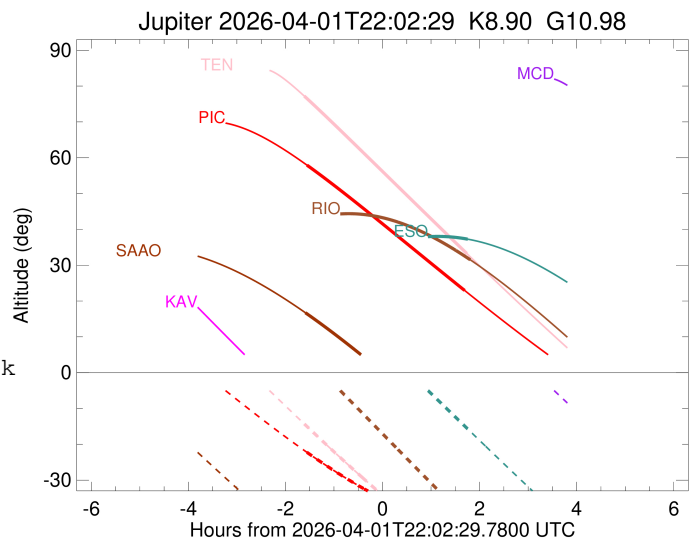
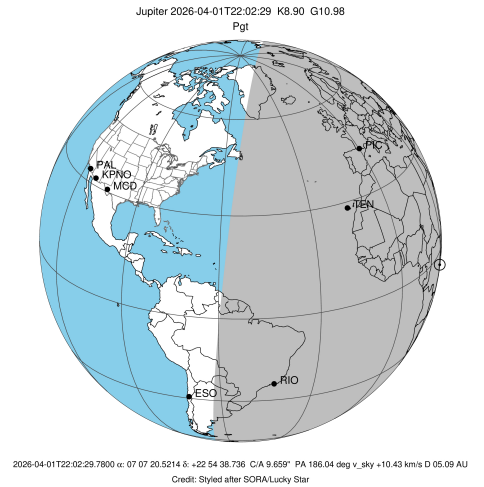
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OCode
PIC	Pic du Midi	42.9	0.1	+ +	APR 01 20:29 - APR 01 23:43	Pie
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	+ +	APR 01 20:25 - APR 01 23:46	Pie
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	+	APR 01 23:50 - APR 01 23:50	Pne
ESO	European Southern Obs. (3.6m)	-29.3	289.3	+	APR 01 23:47 - APR 01 23:47	Pne
AAT	Siding Spring (AAT)	-31.3	149.1			Pnn
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8	+	APR 01 20:27 - APR 01 20:27	Pin
MSO	Mt. Stromlo Observatory	-35.3	149.0			Pnn



```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-01T22:07:17.660
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      : 3368243031473718272
2Mass ID (if available) : 07072052+2254388
ICRS Star Coord at Epoch: 07h 07m 20.52137s +22:54:38.73599s
RUWE (>1.4 is poor) : 1.11
K magnitude          : 8.901
G magnitude          : 10.980
RP magnitude         : 10.325
BP magnitude         : 11.479
DUPflag             : 0
Distance (au)        : 5.085
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 10.43
Sun-Target sep (deg) : 93.65
Sun-Moon sep (deg)  : 84.92
B (ring opening deg) : 1.38
PA of pole (deg)    : 7.97
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation ("): 10.559
C/A sky separation (km): 38944.6
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
    
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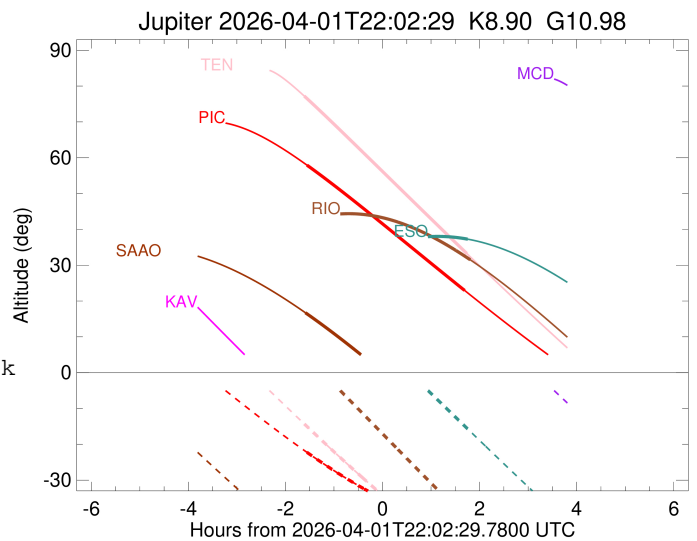
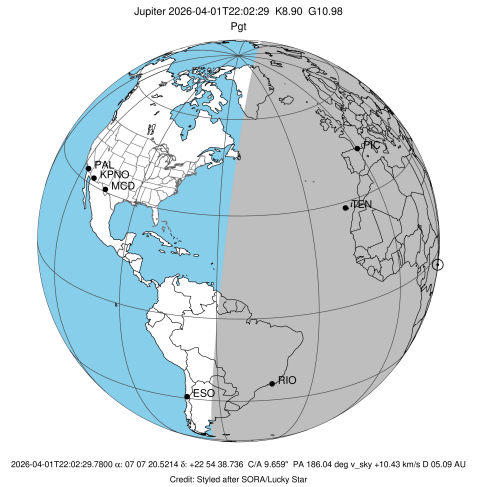


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-01T20:29:11.016	57.91	-22.25	71491.2	34.27	37.84
Jupiter	E	2026-04-01T23:43:59.291	22.95	-42.22	71491.3	31.82	35.29

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-01T22:07:04.510
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      : 3368243031473718272
2Mass ID (if available) : 07072052+2254388
ICRS Star Coord at Epoch: 07h 07m 20.52137s +22:54:38.73599s
RUWE (>1.4 is poor) : 1.11
K magnitude          : 8.901
G magnitude          : 10.980
RP magnitude         : 10.325
BP magnitude         : 11.479
DUPflag             : 0
Distance (au)       : 5.085
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : 10.43
Sun-Target sep (deg) : 93.65
Sun-Moon sep (deg)  : 85.07
B (ring opening deg) : 1.38
PA of pole (deg)    : 7.97
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation (" ) : 10.041
C/A sky separation (km) : 37031.9
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
    
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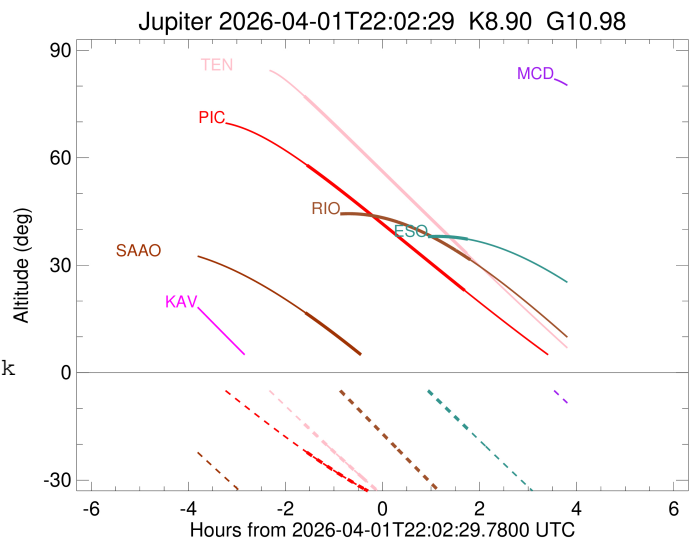
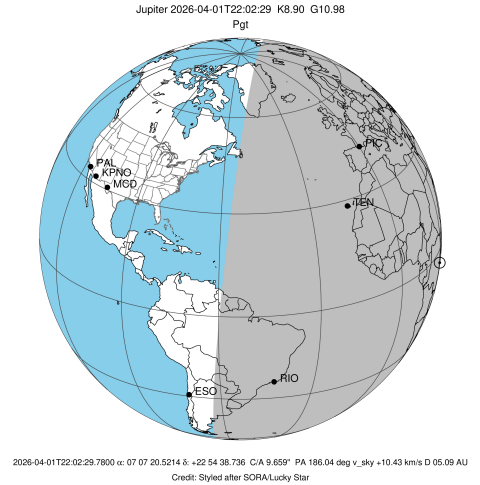


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-01T20:25:52.371	77.19	-14.32	71491.2	32.50	36.00
Jupiter	E	2026-04-01T23:46:50.272	33.23	-51.45	71491.3	30.10	33.48

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-01T22:04:40.300
Event type          : Pgt
                    : Jupiter occs: geocentric, topocentric
                    : Not a ringed target
Observer code       : RIO
Location            : Rio de Janeiro
Latitude (deg)      : -22.89506
E. Longitude (deg)  : 316.77708
Altitude (km)       : 0.033
Gaia source ID      : 3368243031473718272
2Mass ID (if available) : 07072052+2254388
ICRS Star Coord at Epoch: 07h 07m 20.52137s +22:54:38.73599s
RUWE (>1.4 is poor) : 1.11
K magnitude          : 8.901
G magnitude          : 10.980
RP magnitude         : 10.325
BP magnitude         : 11.479
DUPflag             : 0
Distance (au)       : 5.085
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 10.43
Sun-Target sep (deg) : 93.65
Sun-Moon sep (deg)   : 84.96
B (ring opening deg) : 1.38
PA of pole (deg)     : 7.97
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation ("): 8.469
C/A sky separation (km): 31236.4
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
    
```

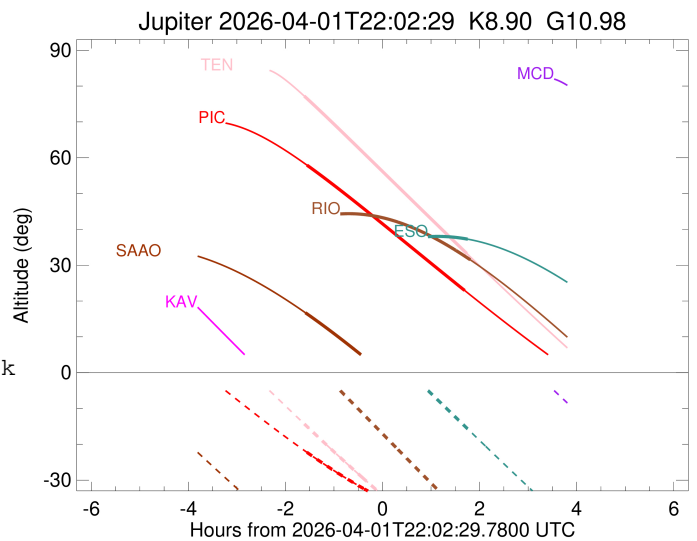
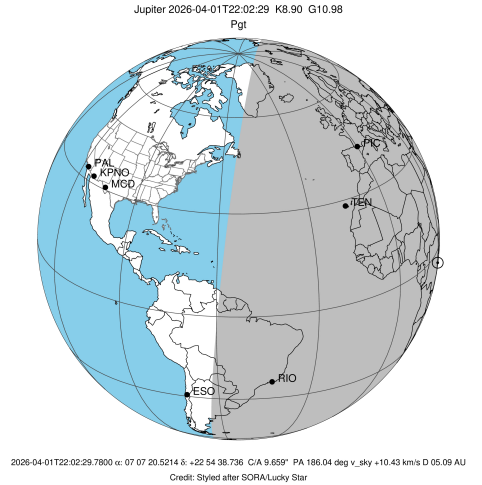


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-01T20:17:33.936	41.84	7.10x	71491.4	27.60	30.82
Jupiter	E	2026-04-01T23:50:55.550	31.51	-41.77	71491.5	24.60	27.59

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-01T22:00:42.490
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : ESO
Location             : European Southern Obs. (3.6m)
Latitude (deg)       : -29.26097
E. Longitude (deg)   : 289.26831
Altitude (km)        : 2.400
Gaia source ID       : 3368243031473718272
2Mass ID (if available) : 07072052+2254388
ICRS Star Coord at Epoch: 07h 07m 20.52137s +22:54:38.73599s
RUWE (>1.4 is poor) : 1.11
K magnitude          : 8.901
G magnitude          : 10.980
RP magnitude         : 10.325
BP magnitude         : 11.479
DUPflag             : 0
Distance (au)        : 5.085
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 10.43
Sun-Target sep (deg) : 93.65
Sun-Moon sep (deg)   : 84.89
B (ring opening deg) : 1.38
PA of pole (deg)     : 7.97
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation ("): 8.278
C/A sky separation (km): 30529.6
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
    
```

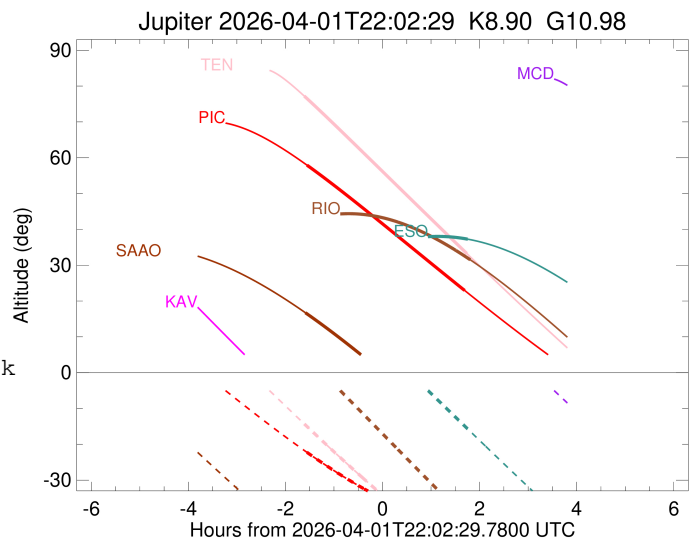
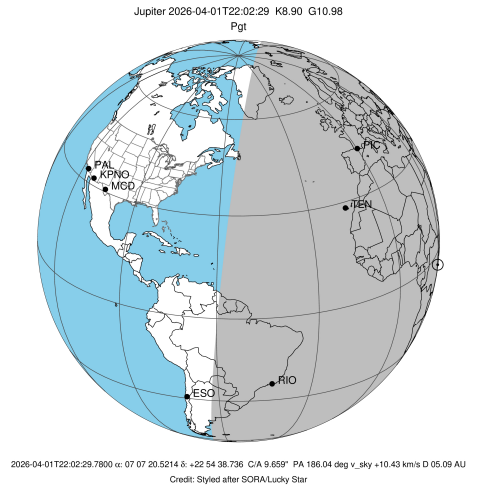


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2026-04-01T20:13:46.172	22.77	29.88x	71491.4	27.44	30.65
Jupiter	E	2026-04-01T23:47:45.515	37.27	-15.70	71491.6	23.53	26.44

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2026-04-01T22:10:39.590
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       : 3368243031473718272
2Mass ID (if available) : 07072052+2254388
ICRS Star Coord at Epoch: 07h 07m 20.52137s +22:54:38.73599s
RUWE (>1.4 is poor) : 1.11
K magnitude          : 8.901
G magnitude          : 10.980
RP magnitude         : 10.325
BP magnitude         : 11.479
DUPflag             : 0
Distance (au)        : 5.085
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 10.43
Sun-Target sep (deg) : 93.65
Sun-Moon sep (deg)   : 84.26
B (ring opening deg) : 1.38
PA of pole (deg)     : 7.97
Pole direction: RA (deg): 268.05768
Dec (deg): 64.49668
C/A sky separation ("): 8.832
C/A sky separation (km): 32575.9
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	2026-04-01T20:27:15.822	16.72	-48.52	71491.4	28.17	31.42
Jupiter	E	2026-04-01T23:52:04.833	-21.62x	-57.92	71491.5	26.01	29.11