

target : Jupiter
 target radius (km) : 71492.00
 C/A epoch : 2043-03-14T18:23:18.580
 Event type : Pgt
 : Jupiter occs: geocentric, topocentric
 : Not a ringed target
 Gaia source ID : 4069588685301227648
 2Mass ID (if available) : 18041749-2259184

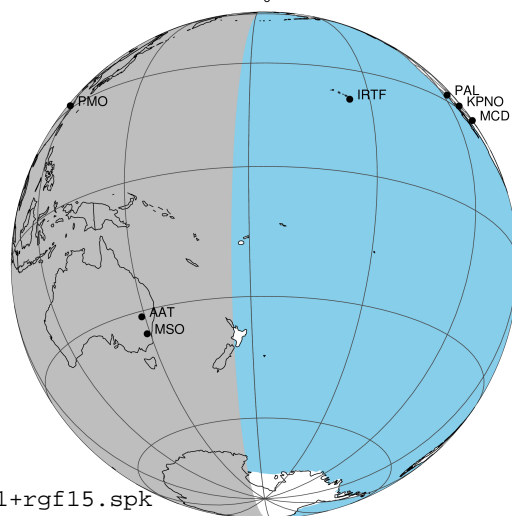
Jupiter 2043-03-14T18:23:18 K9.95 G14.59 Pgt

ICRS Star Coord at Epoch: 18h 04m 17.49876s -22:59:18.58805s

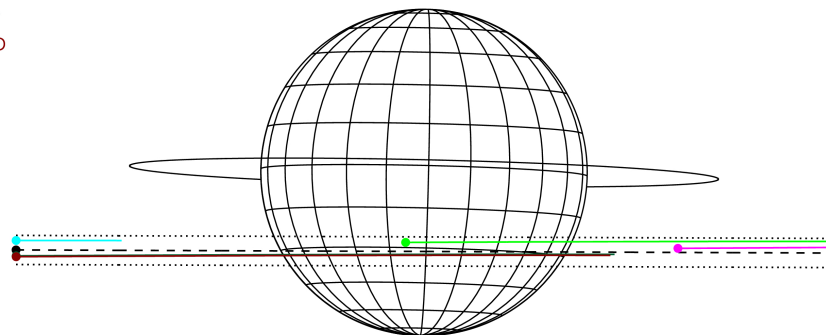
RUWE (>1.4 is poor) : 1.08
 K magnitude : 9.951
 G magnitude : 14.594
 RP magnitude : 13.420
 BP magnitude : 16.083
 DUPflag : 0
 Distance (au) : 5.337
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 17.07
 Sun-Target sep (deg) : 82.48
 Sun-Moon sep (deg) : 128.80
 B (ring opening deg) : -2.48
 PA of pole (deg) : -1.30
 Pole direction: RA (deg): 268.05663
 Dec (deg): 64.49732
 C/A sky separation (") : 8.938
 C/A sky separation (km) : 34595.5
 NAIF SPICE kernels : RAJobs_U111+rgf15.spk

Jupiter 2043-03-14T18:23:18 K9.95 G14.59

Pgt



Earth
 PMO
 IRTF
 KAV
 AAT
 MSO

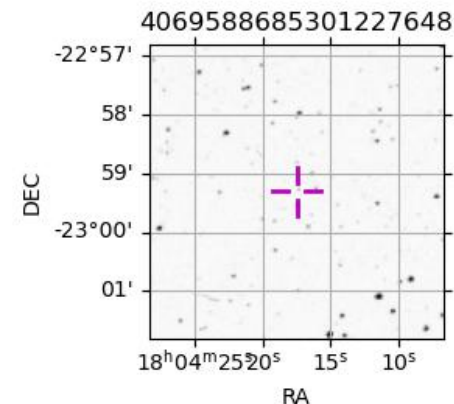


2043-03-14T18:23:18.5800 ca: 18 04 17.4988 s: -22 59 18.588 C/A 8.948" PA 359.78 deg v_sky +17.07 km/s D 05.34 AU

Credit: Styled after SORA/Lucky Star

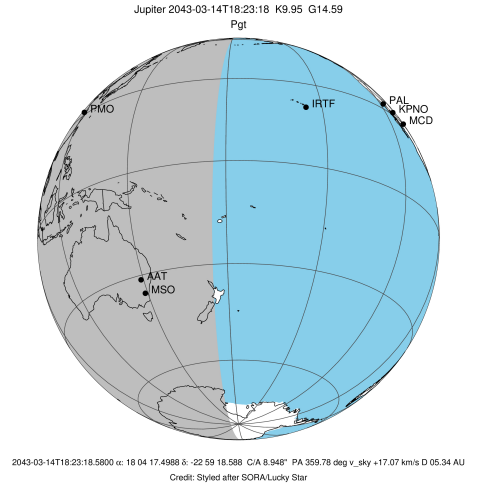
Observable events with sun below -5 deg and altitude above 5 deg

Obs	Location	lat	Elon	Target	Observed Events Interval	OEncode
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	+	MAR 14 19:22 - MAR 14 19:22	Pne
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	+ +	MAR 14 17:19 - MAR 14 19:22	Pie
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8			Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0	+ +	MAR 14 17:19 - MAR 14 19:21	Pie

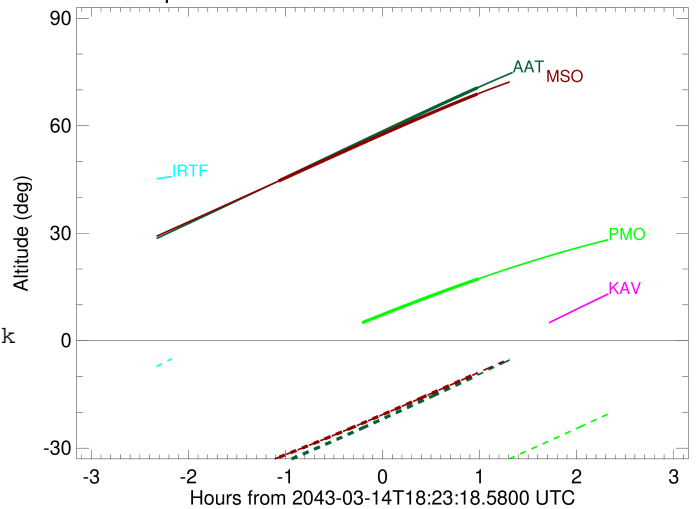


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target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T18:18:45.880
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : PMO
Location              : Purple Mtn Obs. Nanking
Latitude (deg)       : 32.06667
E. Longitude (deg)   : 118.82089
Altitude (km)        : 0.364
Gaia source ID       : 4069588685301227648
2Mass ID (if available) : 18041749-2259184
ICRS Star Coord at Epoch: 18h 04m 17.49876s -22:59:18.58805s
RUWE (>1.4 is poor) : 1.08
K magnitude           : 9.951
G magnitude           : 14.594
RP magnitude          : 13.420
BP magnitude          : 16.083
DUPflag              : 0
Distance (au)        : 5.337
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : 17.07
Sun-Target sep (deg) : 82.48
Sun-Moon sep (deg)   : 128.45
B (ring opening deg) : -2.48
PA of pole (deg)     : -1.30
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 7.904
C/A sky separation (km) : 30594.3
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
    
```



Jupiter 2043-03-14T18:23:18 K9.95 G14.59

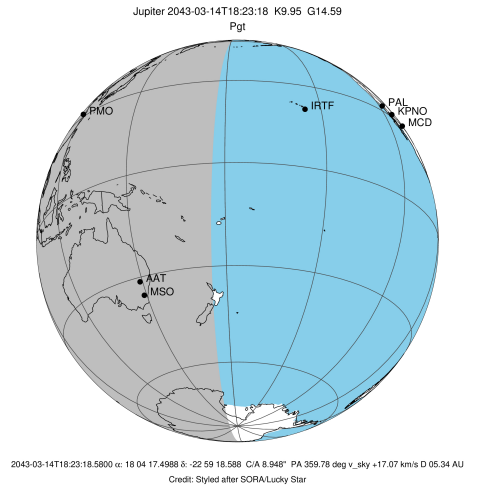


x: target alt < 5.0 deg or sun > -5.0 deg

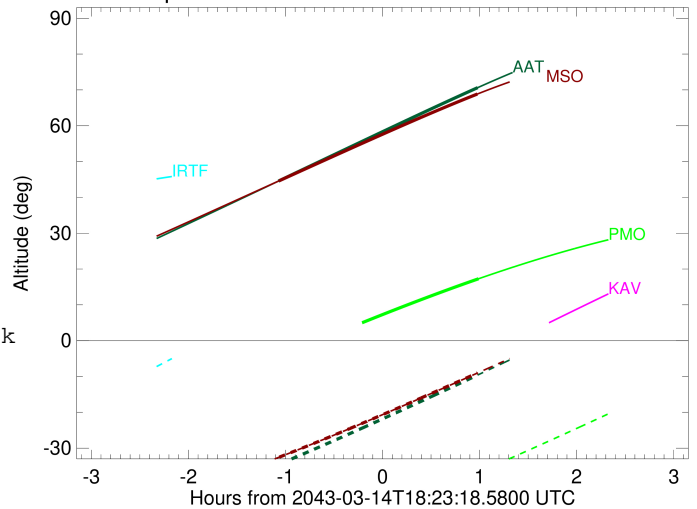
Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T17:15:19.420	-5.46x	-57.12	71490.3	-26.89	-30.06
Jupiter	E	2043-03-14T19:22:39.616	17.28	-36.71	71490.6	-23.79	-26.72

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch             : 2043-03-14T18:20:24.240
Event type            : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code         : AAT
Location              : Siding Spring (AAT)
Latitude (deg)       : -31.27703
E. Longitude (deg)   : 149.06608
Altitude (km)        : 1.164
Gaia source ID       : 4069588685301227648
2Mass ID (if available) : 18041749-2259184
ICRS Star Coord at Epoch: 18h 04m 17.49876s -22:59:18.58805s
RUWE (>1.4 is poor) : 1.08
K magnitude           : 9.951
G magnitude           : 14.594
RP magnitude         : 13.420
BP magnitude         : 16.083
DUPflag              : 0
Distance (au)        : 5.337
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 17.07
Sun-Target sep (deg) : 82.48
Sun-Moon sep (deg)   : 129.14
B (ring opening deg) : -2.48
PA of pole (deg)     : -1.30
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation (") : 9.265
C/A sky separation (km) : 35861.3
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
    
```



Jupiter 2043-03-14T18:23:18 K9.95 G14.59

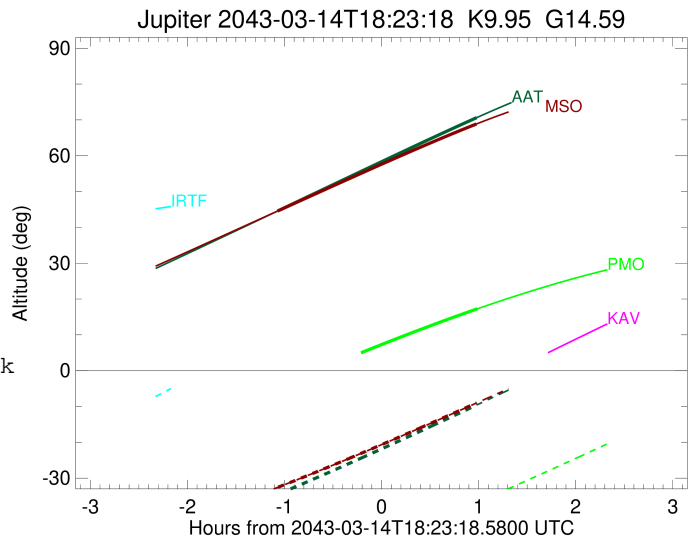
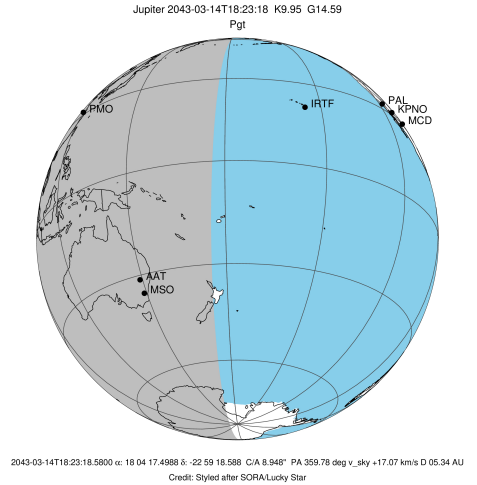


x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Jupiter	I	2043-03-14T17:19:02.702	44.55	-34.53	71489.7	-31.51	-34.96
Jupiter	E	2043-03-14T19:22:03.863	70.61	-9.60	71490.0	-28.76	-32.06

```

target                : Jupiter
target radius (km)   : 71492.00
C/A epoch            : 2043-03-14T18:20:31.890
Event type           : Pgt
: Jupiter occs: geocentric, topocentric
: Not a ringed target
Observer code        : MSO
Location             : Mt. Stromlo Observatory
Latitude (deg)       : -35.32000
E. Longitude (deg)   : 149.00833
Altitude (km)        : 0.770
Gaia source ID       : 4069588685301227648
2Mass ID (if available) : 18041749-2259184
ICRS Star Coord at Epoch: 18h 04m 17.49876s -22:59:18.58805s
RUWE (>1.4 is poor) : 1.08
K magnitude          : 9.951
G magnitude          : 14.594
RP magnitude         : 13.420
BP magnitude         : 16.083
DUPflag             : 0
Distance (au)        : 5.337
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : 17.07
Sun-Target sep (deg) : 82.48
Sun-Moon sep (deg)   : 129.15
B (ring opening deg) : -2.48
PA of pole (deg)     : -1.30
Pole direction: RA (deg): 268.05663
Dec (deg): 64.49732
C/A sky separation ("): 9.374
C/A sky separation (km): 36286.4
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	2043-03-14T17:19:27.903	44.63	-32.52	71489.6	-31.89	-35.36
Jupiter	E	2043-03-14T19:21:53.182	68.83	-9.05	71490.0	-29.16	-32.49