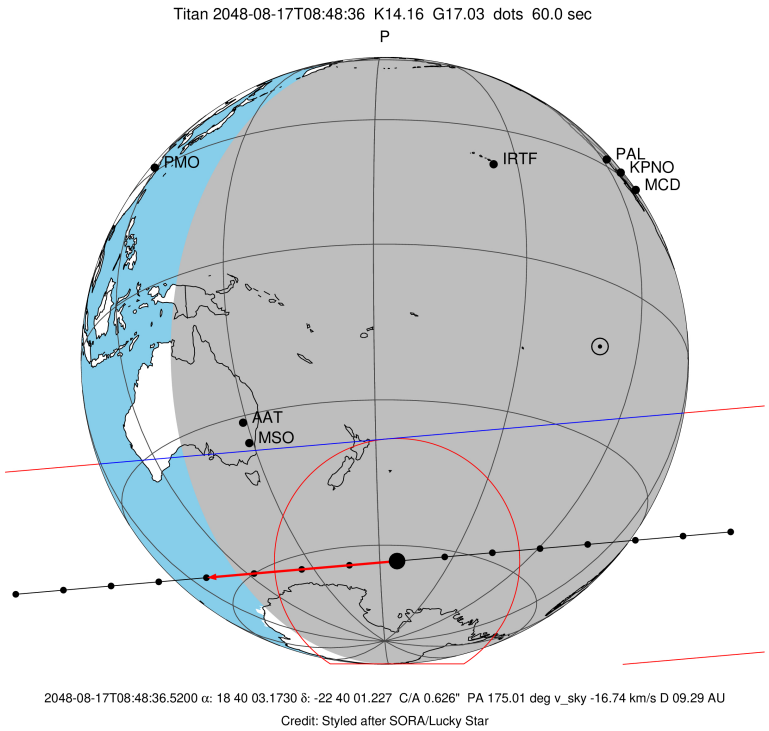
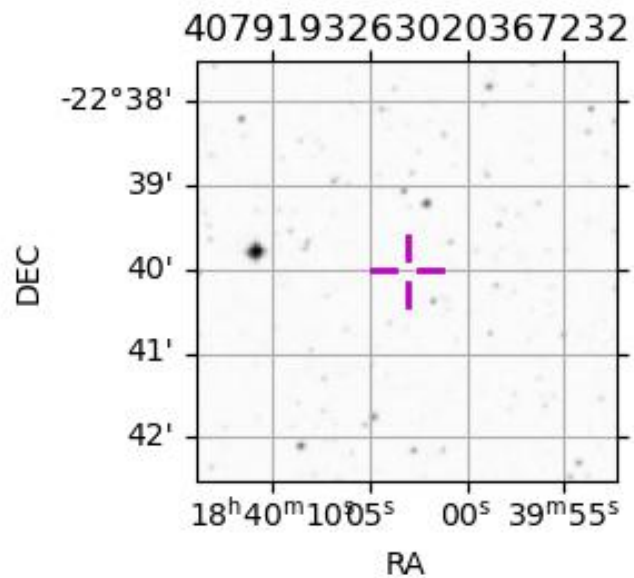
Stellar occultation prediction by rfrench@wellesley.edu Sun Jun 25 13:48:50 2023

target : Titan
target radius (km) : 2575.15
C/A epoch : 2048-08-17T08:48:36.520
Event type : P
: Titan occs: not geocentric or topocentric
: Not a ringed target
Gaia source ID : 4079193263020367232
2Mass ID (if available) : 18400318-2240009

ICRS Star Coord at Epoch: 18h 40m 03.17300s -22:40:01.22731s
RUWE (>1.4 is poor) : 1.02
K magnitude : 14.161
G magnitude : 17.026
RP magnitude : 16.168
BP magnitude : 17.782
DUPflag : 0
Distance (au) : 9.288
f0 (km) : 0.00
g0 (km) : 0.00
skyplane vel. (km/s) : -16.74
Sun-Target sep (deg) : 134.77
Sun-Moon sep (deg) : 40.34
B (ring opening deg) : 25.77
PA of pole (deg) : 6.35
Pole direction: RA (deg): 39.48270
Dec (deg): 83.42790
C/A sky separation (") : 0.626
C/A sky separation (km) : 4216.4
NAIF SPICE kernels : RAJobs_U111+rgf16.spk
URKALLv1.spk
naif0012.tls
nep097.bsp
nep101.bsp
sat440l.bsp



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	|	|	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	|	|	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	|	|	Pnn
SAAO	So. Afr. Astro. Obs. (Sutherland)	-32.4	20.8	|	|	Pnn
MSO	Mt. Stromlo Observatory	-35.3	149.0	|	|	Pnn