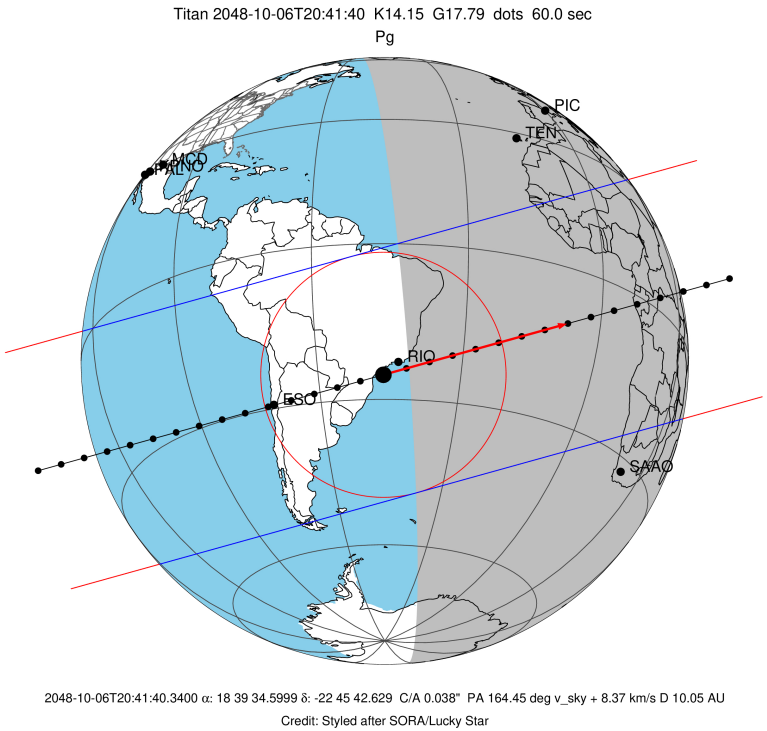
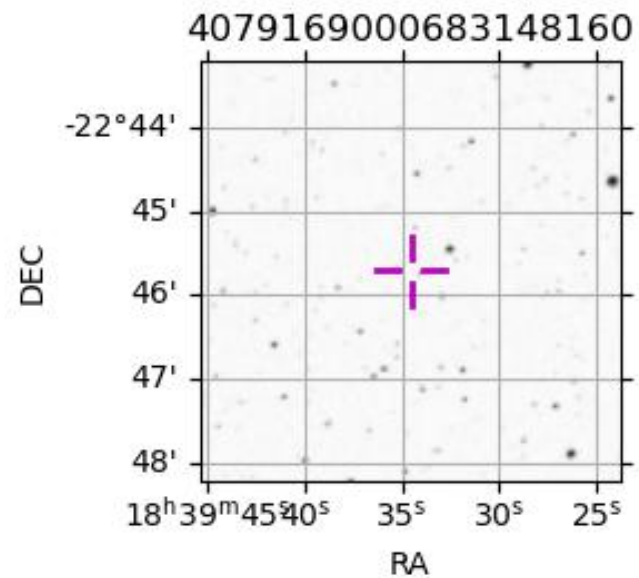
Stellar occultation prediction by rfrench@wellesley.edu Sun Jun 25 13:55:32 2023

target : Titan
target radius (km) : 2575.15
C/A epoch : 2048-10-06T20:41:40.340
Event type : Pg
: Titan occs: geocentric, not topocentric
: Not a ringed target
Gaia source ID : 4079169000683148160
2Mass ID (if available) : 18393460-2245425

ICRS Star Coord at Epoch: 18h 39m 34.59988s -22:45:42.62880s
RUWE (>1.4 is poor) : 1.27
K magnitude : 14.152
G magnitude : 17.791
RP magnitude : 16.957
BP magnitude : 18.473
DUPflag : 0
Distance (au) : 10.053
f0 (km) : 0.00
g0 (km) : 0.00
skyplane vel. (km/s) : 8.37
Sun-Target sep (deg) : 85.53
Sun-Moon sep (deg) : 96.87
B (ring opening deg) : 25.88
PA of pole (deg) : 6.35
Pole direction: RA (deg): 39.48270
Dec (deg): 83.42790
C/A sky separation (") : 0.041
C/A sky separation (km) : 297.5
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