Stellar occultation prediction by rfrench@wellesley.edu Sun Jun 25 12:49:58 2023

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target                  : Titan
target radius (km)      :   2575.15
C/A epoch               : 2047-09-21T15:02:11.800
Event type              : P
: Titan occs: not geocentric or topocentric
: Not a ringed target
Gaia source ID          : 4068922720541995520
2Mass ID (if available) : 17493398-2233130

ICRS Star Coord at Epoch: 17h 49m 33.96832s -22:33:13.37841s
RUWE (>1.4 is poor)     :   1.01
K magnitude             : 12.852
G magnitude             : 17.163
RP magnitude            : 16.009
BP magnitude            : 18.553
DUPflag                 : 0
Distance (au)           : 10.000
f0 (km)                 :       0.00
g0 (km)                 :       0.00
skyplane vel. (km/s)    :   9.75
Sun-Target sep (deg)    :   89.69
Sun-Moon sep (deg)      :   64.11
B (ring opening deg)    :   26.86
PA of pole (deg)        :    5.46
Pole direction: RA (deg):  39.48270
Dec (deg):  83.42790
C/A sky separation (")  :   1.118
C/A sky separation (km) :   8106.3
NAIF SPICE kernels      : RAJobs_U111+rgf16.spk
URKALLv1.spk
naif0012.tls
nep097.bsp
nep101.bsp
sat440l.bsp
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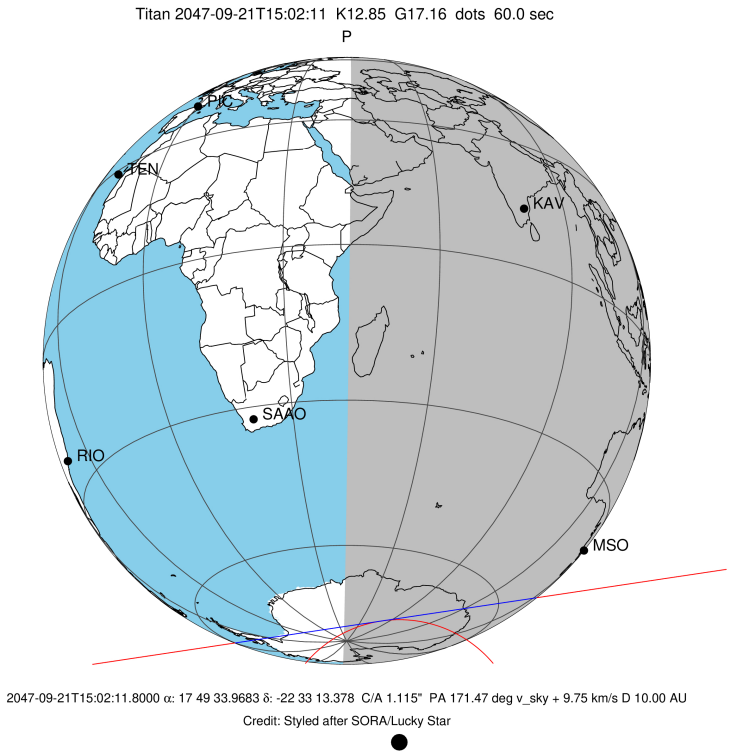
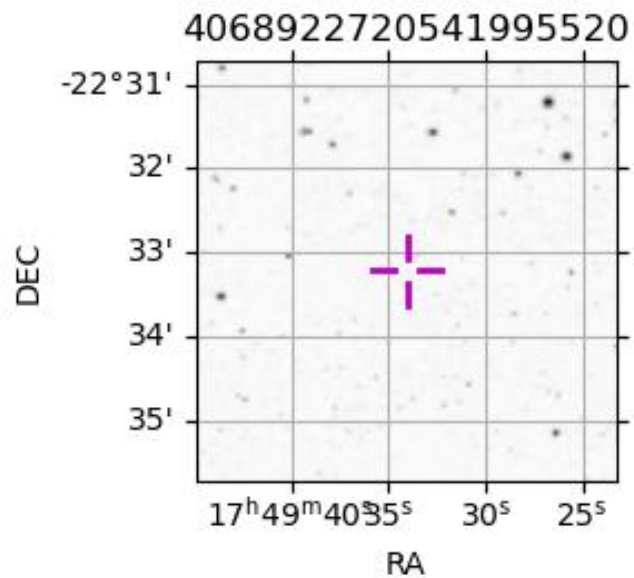


Observable events with sun below -5 deg and altitude above 5 deg

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