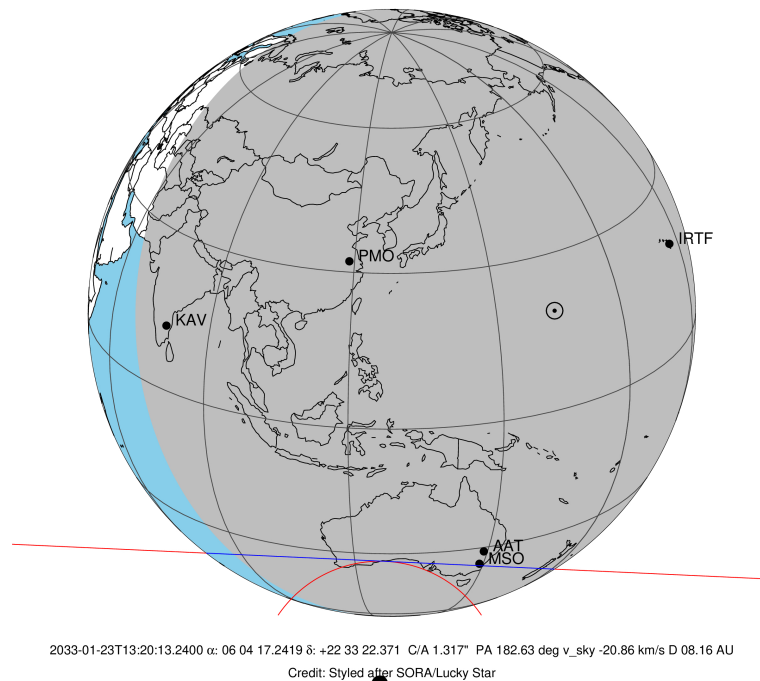


target : Titan  
 target radius (km) : 2575.15  
 C/A epoch : 2033-01-23T13:20:13.240  
 Event type : P  
 : Titan occs: not geocentric or topocentric  
 : Not a ringed target  
 Gaia source ID : 3423798089849540480  
 2Mass ID (if available) : 06041723+2233224

Titan 2033-01-23T13:20:13 K12.65 G14.20 dots 60.0 sec  
 P

ICRS Star Coord at Epoch: 06h 04m 17.24192s +22:33:22.37103s  
 RUWE (>1.4 is poor) : 1.01  
 K magnitude : 12.655  
 G magnitude : 14.198  
 RP magnitude : 13.655  
 BP magnitude : 14.568  
 DUPflag : 0  
 Distance (au) : 8.162  
 f0 (km) : 0.00  
 g0 (km) : 0.00  
 skyplane vel. (km/s) : -20.85  
 Sun-Target sep (deg) : 147.59  
 Sun-Moon sep (deg) : 120.35  
 B (ring opening deg) : -26.53  
 PA of pole (deg) : -5.75  
 Pole direction: RA (deg): 39.48270  
 Dec (deg): 83.42790  
 C/A sky separation (") : 1.319  
 C/A sky separation (km) : 7808.4  
 NAIF SPICE kernels : RAJobs\_U111+rgf16.spk



URKALLv1.spk  
 naif0012.tls  
 nep097.bsp  
 nep101.bsp  
 sat4401.bsp  
 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				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

3423798089849540480

