

target : Titan  
 target radius (km) : 2575.15  
 C/A epoch : 2046-02-28T11:55:33.780  
 Event type : P  
 : Titan occs: not geocentric or topocentric  
 : Not a ringed target  
 Gaia source ID : 4114860423771143552  
 2Mass ID (if available) : 17242467-2140478

ICRS Star Coord at Epoch: 17h 24m 24.66680s -21:40:47.85998s  
 RUWE (>1.4 is poor) : 1.60  
 K magnitude : 14.320  
 G magnitude : 17.456  
 RP magnitude : 16.471  
 BP magnitude : 18.367  
 DUPflag : 0  
 Distance (au) : 10.199  
 f0 (km) : 0.00  
 g0 (km) : 0.00  
 skyplane vel. (km/s) : 21.49  
 Sun-Target sep (deg) : 77.68  
 Sun-Moon sep (deg) : 6.30  
 B (ring opening deg) : 26.52  
 PA of pole (deg) : 4.87  
 Pole direction: RA (deg): 39.48270  
 Dec (deg): 83.42790  
 C/A sky separation (") : 1.073  
 C/A sky separation (km) : 7939.8  
 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 | OCode |
|------|-----------------------------------|-------|-------|--------|-----------------|----------|-------|
| 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   |

