

target : Titan
 target radius (km) : 2575.15
 C/A epoch : 2046-02-16T16:37:21.150
 Event type : P
 : Titan occs: not geocentric or topocentric
 : Not a ringed target
 Gaia source ID : 4115035963333178496
 2Mass ID (if available) : 17213232-2140299

ICRS Star Coord at Epoch: 17h 21m 32.32306s -21:40:30.21246s
 RUWE (>1.4 is poor) : 0.94
 K magnitude : 12.589
 G magnitude : 16.873
 RP magnitude : 15.734
 BP magnitude : 18.227
 DUPflag : 0
 Distance (au) : 10.378
 f0 (km) : 0.00
 g0 (km) : 0.00
 skyplane vel. (km/s) : 20.96
 Sun-Target sep (deg) : 66.46
 Sun-Moon sep (deg) : 170.72
 B (ring opening deg) : 26.57
 PA of pole (deg) : 4.81
 Pole direction: RA (deg): 39.48270
 Dec (deg): 83.42790
 C/A sky separation (") : 0.704
 C/A sky separation (km) : 5300.7
 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 |

