



```

target                : Titan
target radius (km)   : 2575.15
C/A epoch            : 2048-08-06T07:22:39.800
Event type          : Pgt
: Titan occs: geocentric, topocentric
: Not a ringed target
Observer code       : ESO
Location            : European Southern Obs. (3.6m)
Latitude (deg)      : -29.26097
E. Longitude (deg)  : 289.26831
Altitude (km)       : 2.400
Gaia source ID      : 4079277616103578240
2Mass ID (if available) : 18420290-2234480
ICRS Star Coord at Epoch: 18h 42m 02.87208s -22:34:49.11630s
RUWE (>1.4 is poor) : 1.00
K magnitude          : 13.471
G magnitude          : 17.030
RP magnitude         : 15.934
BP magnitude         : 18.200
DUPflag             : 0
Distance (au)       : 9.179
f0 (km)             : 0.00
g0 (km)             : 0.00
skyplane vel. (km/s) : -14.68
Sun-Target sep (deg) : 145.85
Sun-Moon sep (deg)  : 176.27
B (ring opening deg) : 25.64
PA of pole (deg)    : 6.38
Pole direction: RA (deg): 39.48270
Dec (deg): 83.42790
C/A sky separation (") : 0.059
C/A sky separation (km) : 395.9
NAIF SPICE kernels  : RAJobs_U111+rgf16.spk
URKALLv1.spk
naif0012.tls
nep097.bsp
nep101.bsp
sat4401.bsp
de440.bsp
earth_720101_070426.bpc
jup365.bsp
urall6.bsp
IAU_SATURN_for_RINGFIT.tpc
pck00010.tpc
earth_200101_990628_predict.bpc
IAU_NEPTUNE_for_RINGFIT.tpc.BECAREFUL
uranus_ringframes_rfrench20220627_v1.tf
neptune_ringframes_rfrench20220702a_v1.tf
earth_flat_IAU.spk

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x: target alt < 5.0 deg or sun > -5.0 deg
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Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Titan	I	2048-08-06T07:19:48.022	24.54	-53.15	2575.1	5.07	5.07
Titan	E	2048-08-06T07:25:31.692	23.32	-51.92	2575.1	10.85	10.85

