

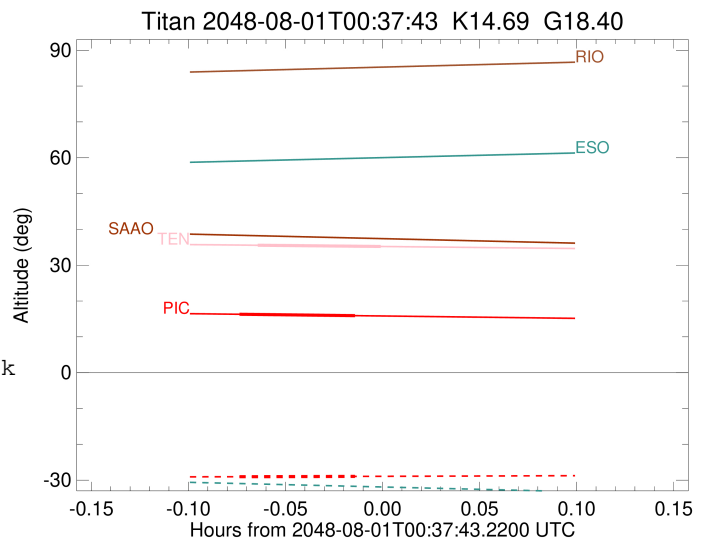

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target                : Titan
target radius (km)   : 2575.15
C/A epoch            : 2048-08-01T00:35:04.590
Event type           : Pt
: Titan occs: topocentric, not geocentric
: Not a ringed target
Observer code        : PIC
Location             : Pic du Midi
Latitude (deg)       : 42.93656
E. Longitude (deg)   : 0.14231
Altitude (km)        : 2.890
Gaia source ID       : 4078529364102483456
2Mass ID (if available) : 18433960-2234340
ICRS Star Coord at Epoch: 18h 43m 39.59523s -22:34:33.47405s
RUWE (>1.4 is poor) : 1.01
K magnitude           : 14.687
G magnitude           : 18.405
RP magnitude          : 17.428
BP magnitude          : 18.824
DUPflag              : 0
Distance (au)         : 9.126
f0 (km)               : 0.00
g0 (km)               : 0.00
skyplane vel. (km/s) : -21.62
Sun-Target sep (deg) : 151.28
Sun-Moon sep (deg)   : 112.54
B (ring opening deg) : 25.59
PA of pole (deg)     : 6.40
Pole direction: RA (deg): 39.48270
Dec (deg): 83.42790
C/A sky separation ("): 0.156
C/A sky separation (km): 1034.9
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

```

x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Titan	I	2048-08-01T00:33:16.835	16.30	-29.05	2575.2	10.38	10.38
Titan	E	2048-08-01T00:36:52.350	15.91	-28.96	2575.1	31.89	31.91



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target                : Titan
target radius (km)   : 2575.15
C/A epoch             : 2048-08-01T00:35:45.710
Event type            : Pt
: Titan occs: topocentric, not geocentric
: Not a ringed target
Observer code         : TEN
Location              : Teide Obs./Tenerife
Latitude (deg)       : 28.30050
E. Longitude (deg)   : 343.48909
Altitude (km)        : 2.395
Gaia source ID       : 4078529364102483456
2Mass ID (if available) : 18433960-2234340
ICRS Star Coord at Epoch: 18h 43m 39.59523s -22:34:33.47405s
RUWE (>1.4 is poor) : 1.01
K magnitude           : 14.687
G magnitude           : 18.405
RP magnitude          : 17.428
BP magnitude          : 18.824
DUPflag              : 0
Distance (au)        : 9.126
f0 (km)              : 0.00
g0 (km)              : 0.00
skyplane vel. (km/s) : -21.62
Sun-Target sep (deg) : 151.28
Sun-Moon sep (deg)   : 112.75
B (ring opening deg) : 25.59
PA of pole (deg)     : 6.40
Pole direction: RA (deg): 39.48270
Dec (deg): 83.42790
C/A sky separation ("): 0.076
C/A sky separation (km): 501.4
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

```

x: target alt < 5.0 deg or sun > -5.0 deg

Target	I/E	UTC	alt	alt-sun	radius	lat-geo	lat-geodetic
Titan	I	2048-08-01T00:33:50.889	35.57	-43.06	2575.2	-0.88	-0.88
Titan	E	2048-08-01T00:37:40.540	35.22	-43.24	2575.1	21.01	21.02

