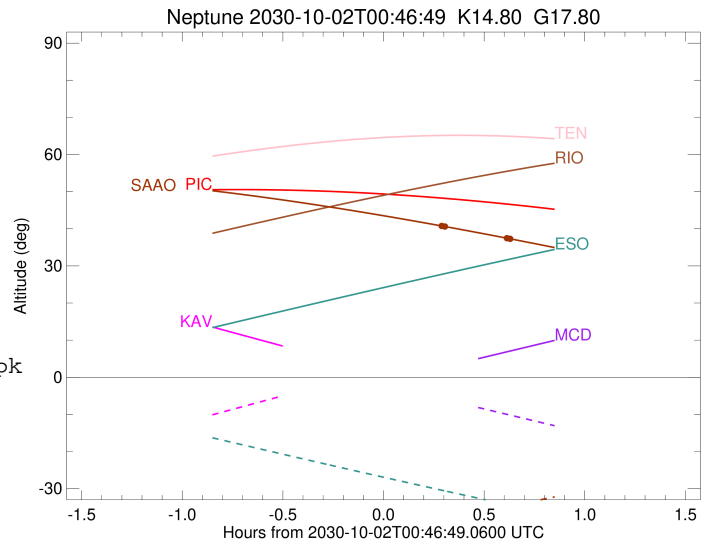
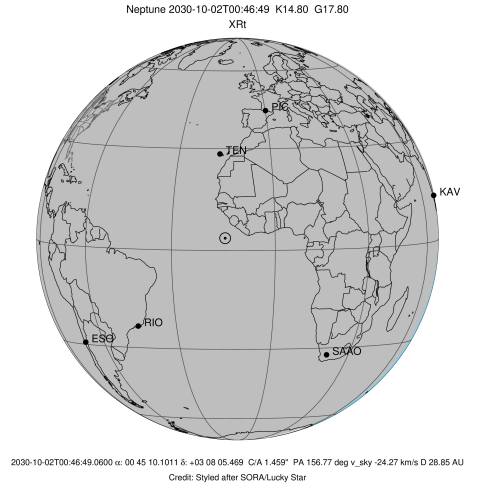



```

target                : Neptune
target radius (km)   : 24764.00
C/A epoch             : 2030-10-02T00:46:07.150
Event type            : XRT
: No Neptune occs
: Ring occs: topocentric, not geocentric
Observer code         : SAAO
Location              : So. Afr. Astro. Obs. (Sutherland)
Latitude (deg)        : -32.37953
E. Longitude (deg)    : 20.81070
Altitude (km)         : 1.768
Gaia source ID        : 2550835399841217792
2Mass ID (if available) : 00451010+0308052
ICRS Star Coord at Epoch: 00h 45m 10.10108s +03:08:05.46948s
RUWE (>1.4 is poor)  : 1.06
K magnitude           : 14.802
G magnitude           : 17.799
RP magnitude          : 16.842
BP magnitude          : 18.752
DUPflag              : 0
Distance (au)         : 28.853
f0 (km)               : 0.000
g0 (km)               : 0.000
skyplane vel. (km/s) : -24.27
Sun-Target sep (deg)  : 176.47
Sun-Moon sep (deg)    : 121.76
B (ring opening deg) : -15.42
PA of pole (deg)      : -46.14
Pole direction: RA (deg): 299.33374
Dec (deg): 42.95036
C/A sky separation (") : 1.246
C/A sky separation (km) : 26076.8
NAIF SPICE kernels    : RAJobs_U111+rgf16.spk
URKALLv1.spk
nep097.bsp
nep101.bsp
sat4401.bsp
de440.bsp
earth_720101_070426.bpc
earthstns_itr93_040916.bsp
earth_200101_990628_predict.bpc
pck00010.tpc
pck.urall11.tpc.Neptune
naif0012.tls
IAU_NEPTUNE_for_RINGFIT.tpc.BECAREFUL
earth_flat_IAU.spk
    
```



Ring	I/E	UTC	b?	alt	alt-sun	radius	r-dot	lat-geo	lat-geodetic
Adams	I	2030-10-02T01:02:54.893		40.97	-38.46	62933.18	-19.14		
Galatea	I	2030-10-02T01:03:47.853		40.82	-38.31	61953.32	-17.86		

No planet occultations

Galatea	E	2030-10-02T01:23:52.758		37.42	-34.78	61953.00	17.81		
Adams	E	2030-10-02T01:24:45.888		37.26	-34.62	62933.00	19.07		