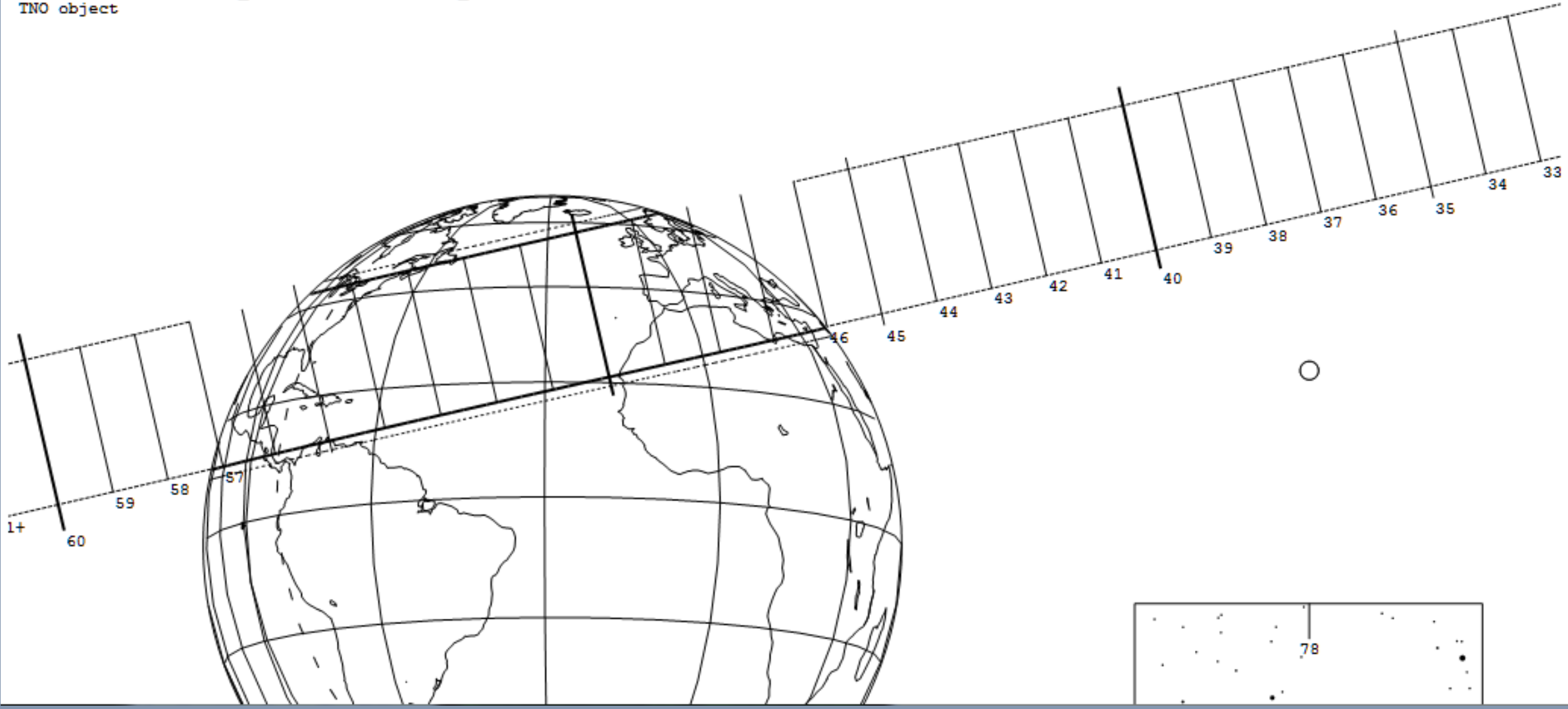
P8M01 Triton occults 4UC 410-143659 on 2017 Oct 5 from 23h 44m to 23h 59m UT

Star:
Mv = 12.2
RA = 22 54 18.4364 (J2000)
Dec = - 8 0 8.318 ...
[of Date: 22 55 14, - 7 54 23]
Prediction of 2017 Oct 4.5

Max Duration =157.8 secs
Mag Drop = 1.6 (5.1r)
Sun : Dist = 149 deg
Moon: Dist = 34 deg
: illum =100 %
E 0.008"x 0.008" in PA 90

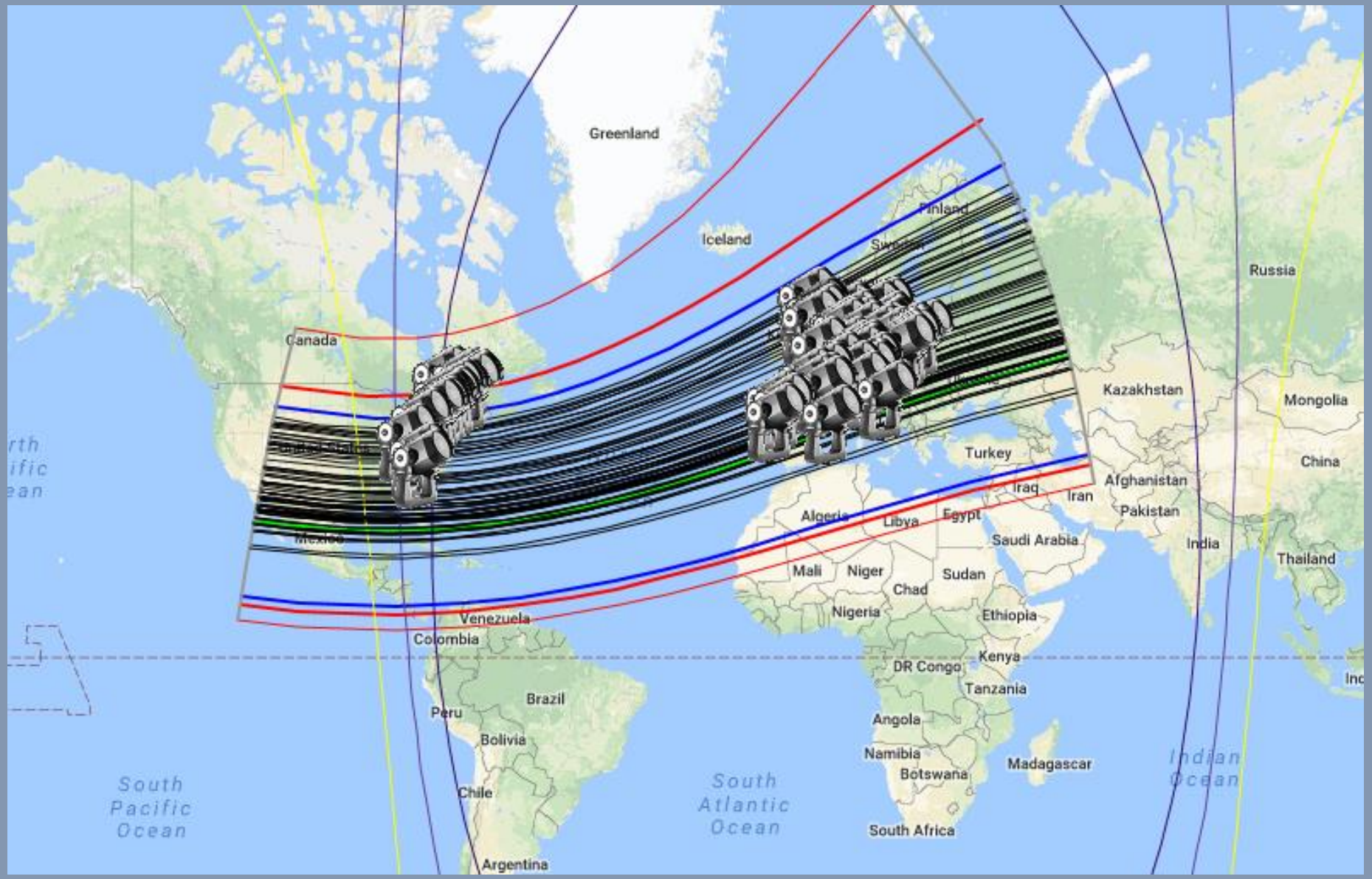
Asteroid:
Mag =13.5
Dia =2706km, 0.128"
Parallax = 0.302"
Hourly dRA =-0.192s
dDec = -0.66"

Prediction is from RIO_TNO feed. Contact RIO_TNO group with any observations
TNO object

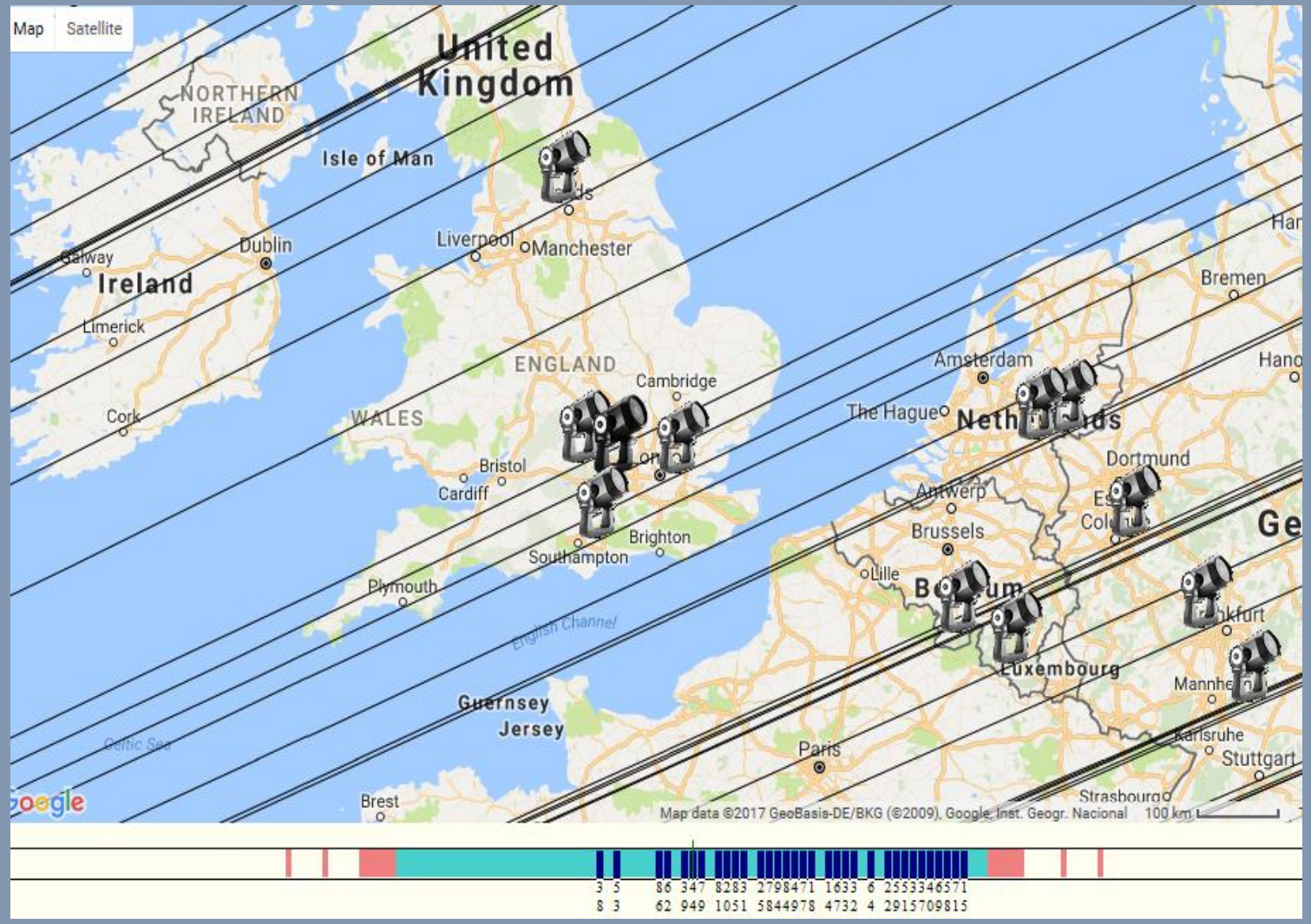


Testing in July. This is at prime focus, no Moon

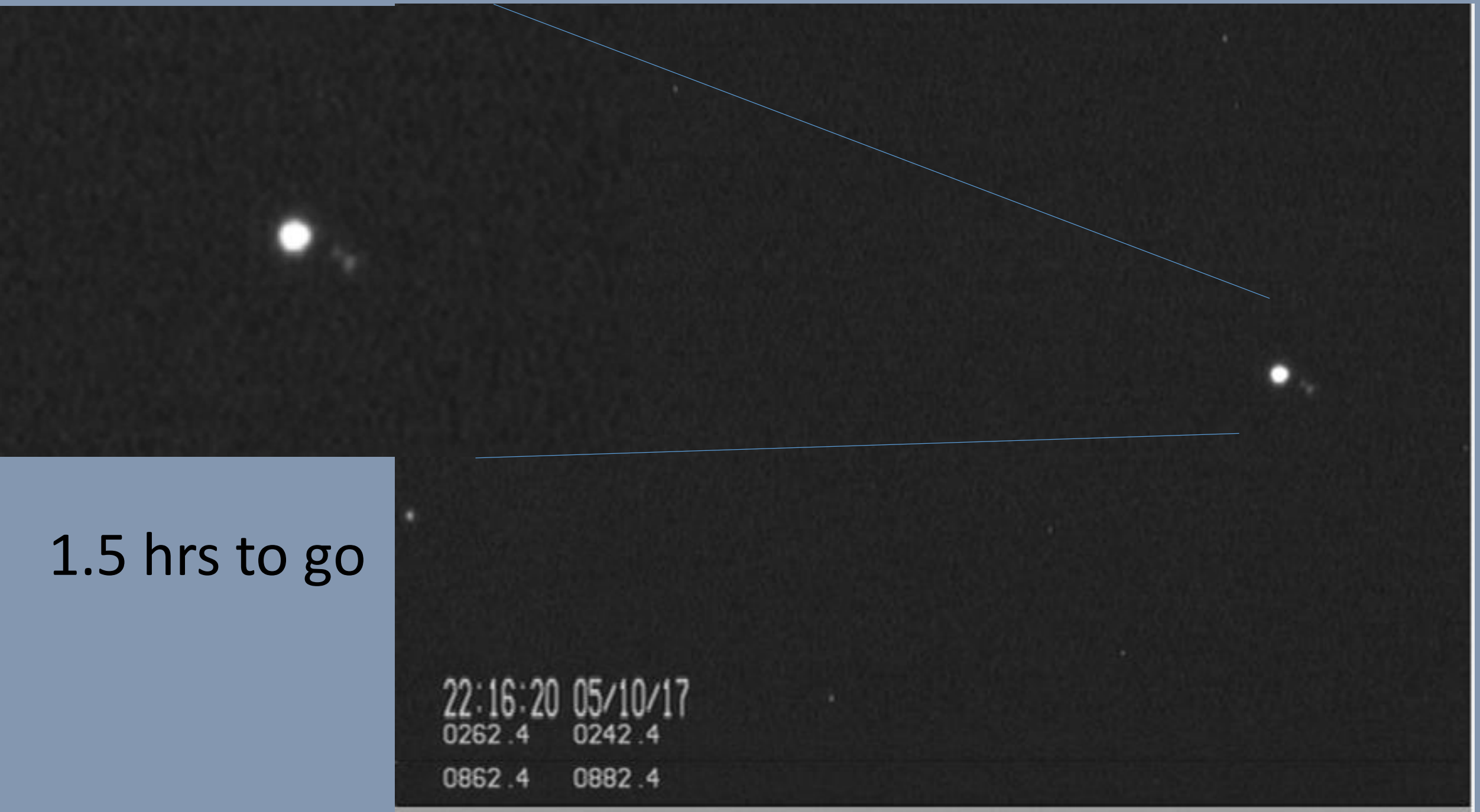
European and US observers planed to observe this event



Successful UK observers – 10 light curves. Instruments ranged form 6” to 24”, video or web-cam



John Talbot	12”	144 s
Tim Haymes	12”	141 s
Alex Pratt (Leeds)	8”	131.5s
Terry Platt (Binfield)	6”	
David Briggs (Clanfield)	24”	



1.5 hrs to go

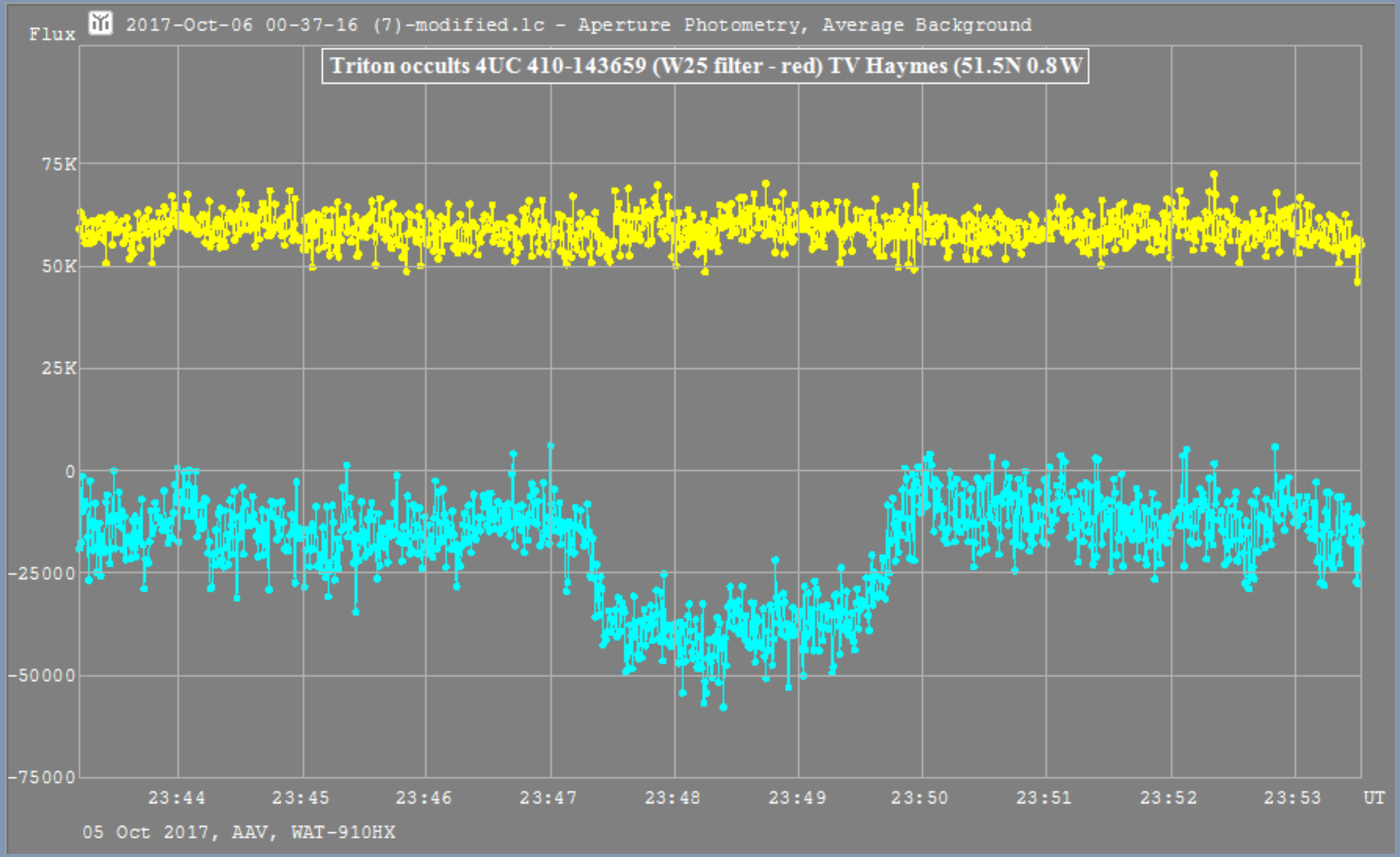
2226 UT

2337 UT

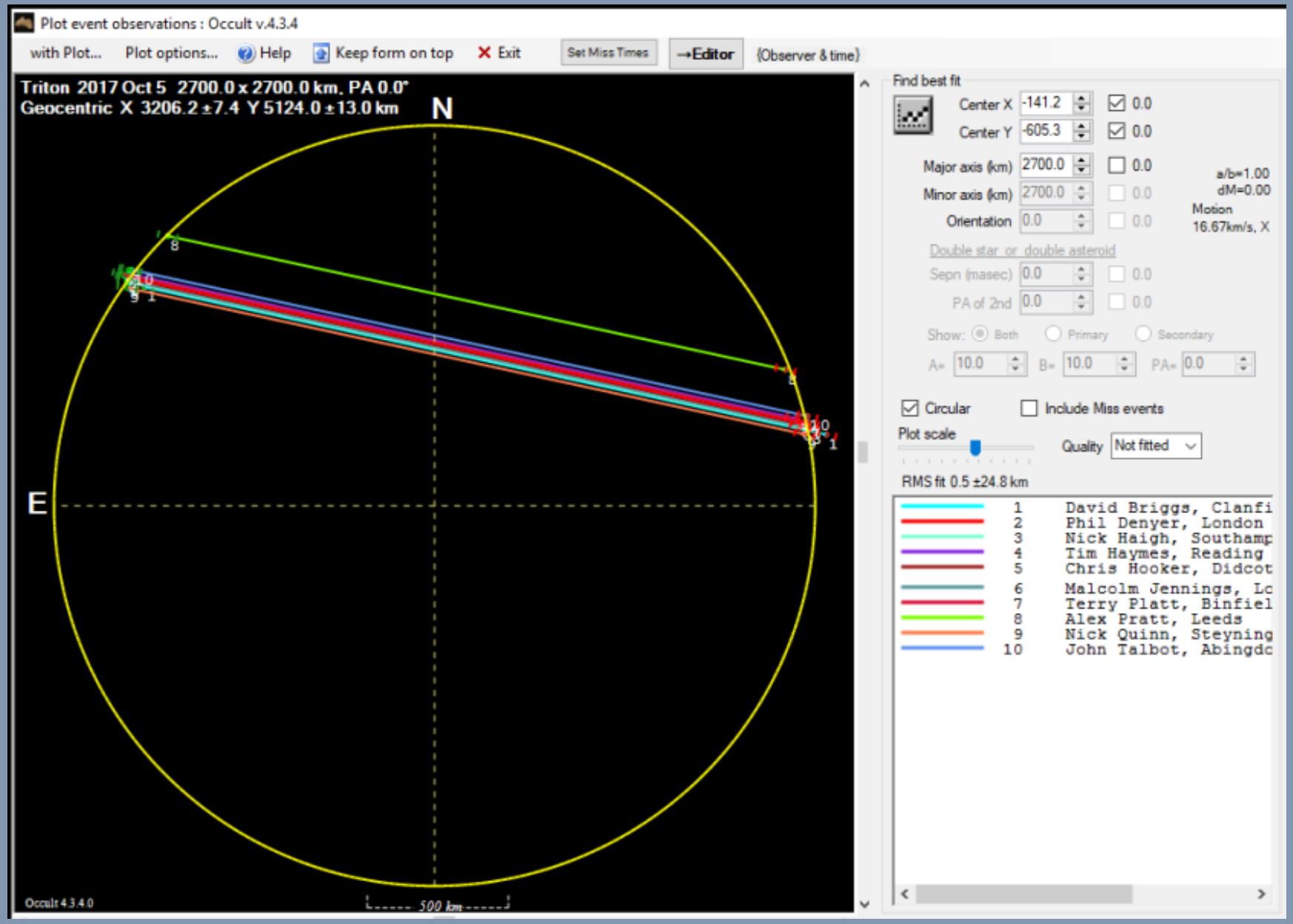
2348 star Occulted

Triton is magnitude 13.5
The Star is magnitude 12.5

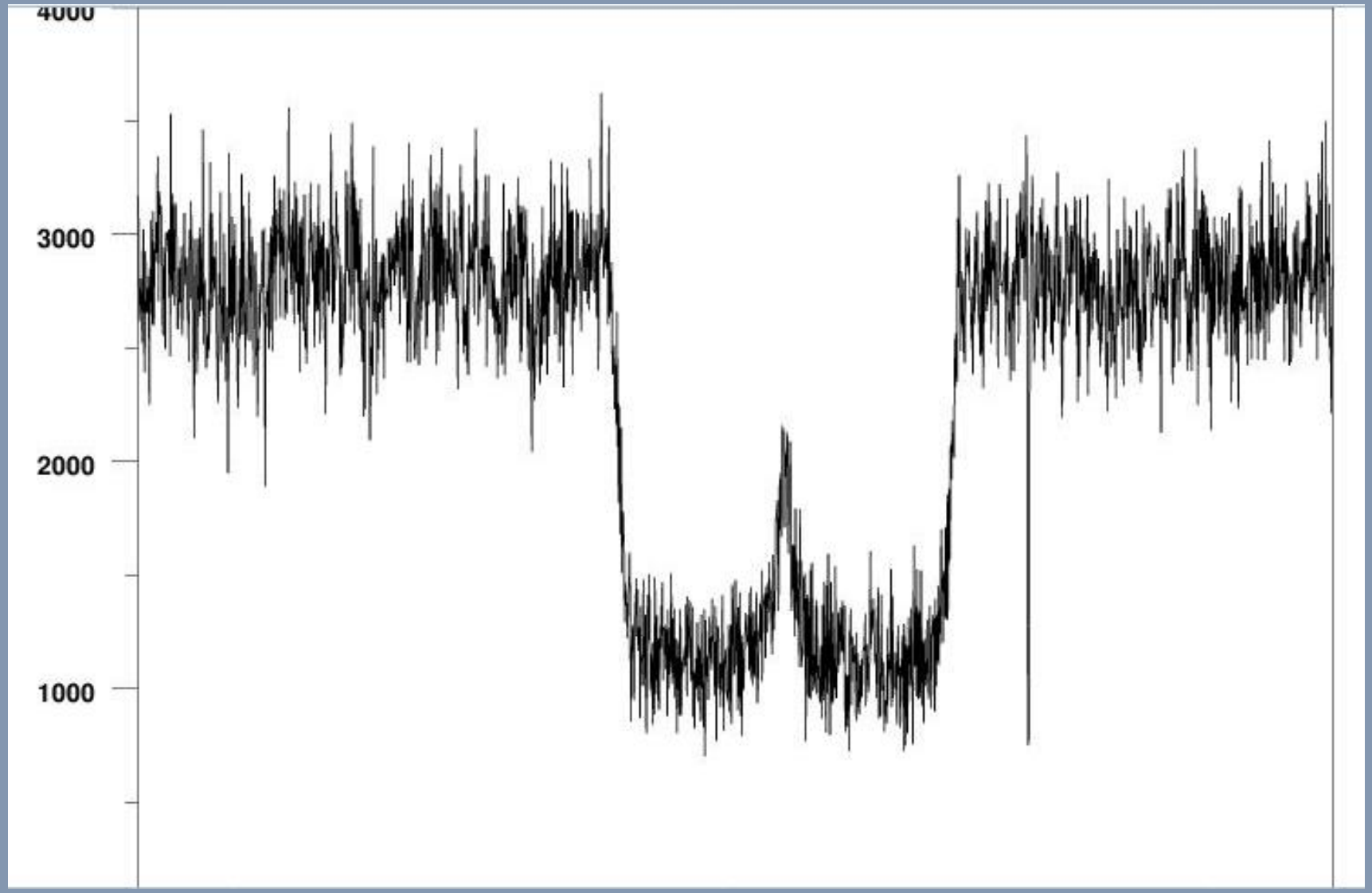
The brighter object is the star.


2017-Oct-06 00-37-16 (7)-modified.lc - Aperture Photometry, Average Background
Triton occults 4UC 410-143659 (W25 filter - red) TV Haymes (51.5N 0.8W
Flux
75K
50K
25K
0
-25000
-50000
-75000
23:44
23:45
23:46
23:47
23:48
23:49
23:50
23:51
23:52
23:53
UT
05 Oct 2017, AAV, WAT-910HX

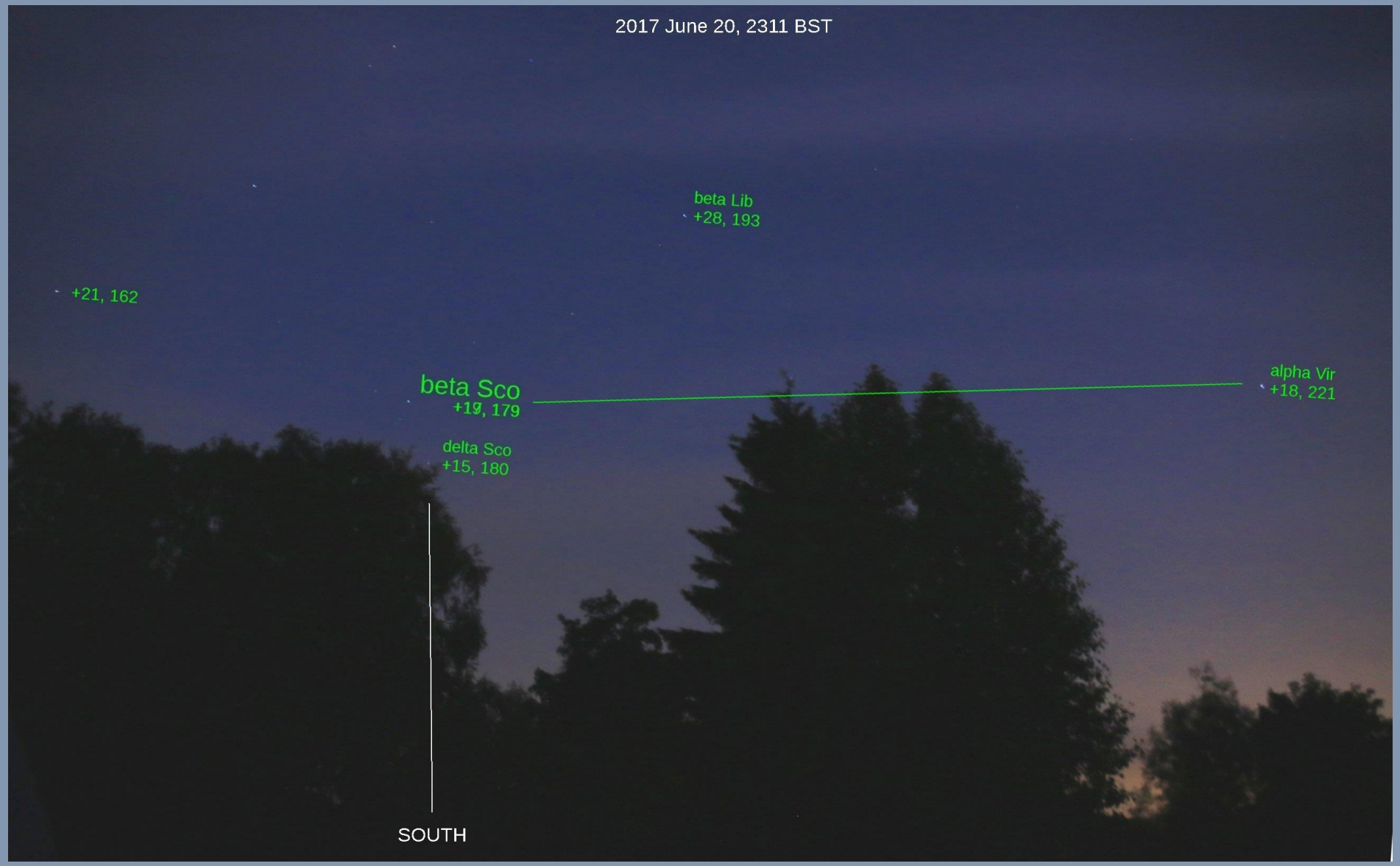
UK Occultation Chords plotted courtesy of Alex Pratt (BAA IOTA/ES)



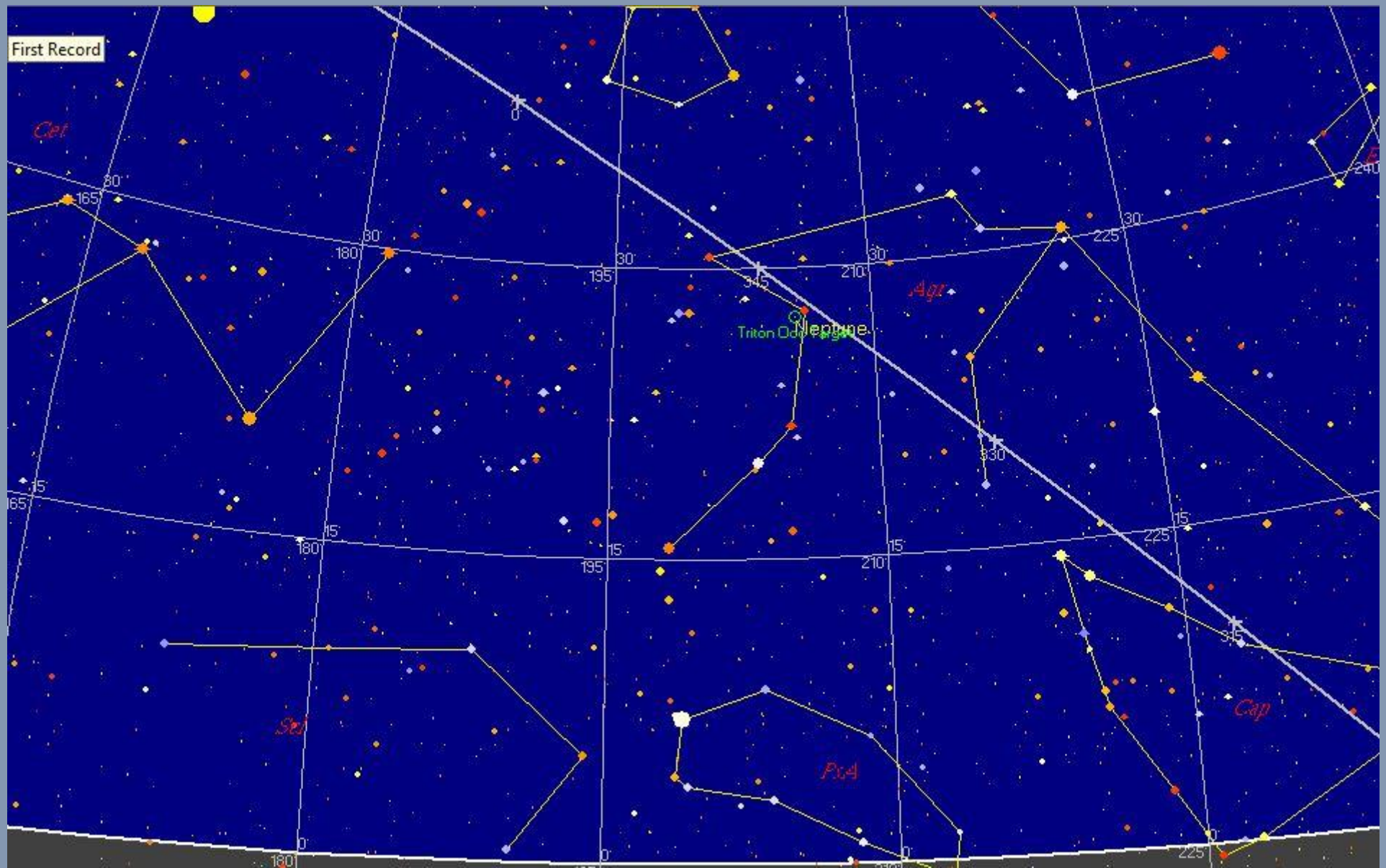
Remarkable Central flash (refraction) Dr Wolfgang Beisker (IOTA/ES) from Elvas in Portugal 11” SCT and 12 bit CCD camera (Linux) http://www.iota-es.de/



Neptune was above my tree tops at +28



And Neptune was near 3rd mag lambda Aquarii



Last Slide. The Equipment used.

- 30cm (12”) Orion Optics F/4 on EQ6pro
- Vixen 2x Barlow (=2.5x)
- Video camera WAT-910HX (8 bit)
- Filter: Wratten 25 (red) to improve stability and increase contrast
- Exposure (integration) 0.64s (output as PAL 25 fps)
- Analogue-to-Digital (USB) converter: *ION from MAPLIN.
- Recording to PC/hard disk in AAV format with OccuRec (recorder)
- Analysis with TANGRA