Stellar Occultation Timing Association Switzerland

Stellar Occultation by Triton
October 5, 2017

Overview:

Triton: about 13.5 mag
Star: about 12.4 mag Location: RA (J2000): 22h 54m 18.4s
Dec (J2000): –08° 00m 08.3s
UCAC4 410-143659 2MASS 22541840-0800082
USNO B 0819-0776968 GAIA DR1 2610107907030969600

Preparation:

Priority 1: If possible, choose focal length 2000 mm and more to clearly separate Triton from Neptun (distance only 12 arcsec)

Priority 2: Choose exposure/integrated time to get a clear signal from Triton (x16, x32, x64….)

- Adjust Field of View to get some comparison stars in the same field.
- Do not use any filters
- Do not apply any video compression
- Do not apply any camera internal processing (all parameters OFF / ZERO), except: AGC (Gain): as required

Recording Schedule: October 5, 2017

Define new File Name in VirtualDub
22:00:00 UT Start Recording of Triton, showing Triton and occulted star still **separated**
22:01:00 UT End Recording of Triton, showing Triton and occulted star still **separated**

Define new File Name in VirtualDub
23:00:00 UT Start Recording **Dark Video Sequence** (close video cam aperture before)
23:01:00 UT End Recording **Dark Video Sequence** (remove video cam aperture)

Define new File Name in VirtualDub
23:05:00 UT Start Recording of Triton, showing Triton and occulted star still **separated**
23:06:00 UT End Recording of Triton, showing Triton and occulted star still **separated**

Define new File Name in VirtualDub
23:18:00 UT Start Recording **Triton Occultation** (= October 06, 01:18:00 MESZ)
Mid of Triton Occultation over Switzerland: about 23:48:00 UT
00:18:00 UT End Recording **Triton Occultation** (= October 06, 02:18:00 MESZ)

Define new File Name in VirtualDub
00:30:00 UT Start Recording **Dark Video Sequence** (close video cam aperture before)
00:31:00 UT End Recording **Dark Video Sequence** (remove video cam aperture)

Upload:
After successful recording, please send an e-mail to
- Karsten Schindler (schindler@dsi.uni-stuttgart.de)
- with cc to me (jonas.schenker@sunrise.ch)

with the following content:

Subject:	Triton Observation campaign
Content:	Station name (acc. Observer list)
	Observer Name (acc. Observer list)
	Your full international postal adress

After sending this e-mail to Karsten Schindler, you will get the login data to upload your data directly into a personal directory of the Server of University of Stuttgart. Please upload your data within a few days after the successful observation, thank you.

Filenames: Each filename shall contain the station name, observer name and the ongoing number.

Examples of filenames:

Triton separated from occulted star:	"GNO_Sposetti_Separation_01.avi"
Dark Video Sequenze 1:	"GNO_Sposetti_Dark_01.avi"
Triton separated from occulted star:	"GNO_Sposetti_Separation_02.avi"
Main Triton Occultation:	"GNO_Sposetti_Triton_01.avi" …"GNO_Sposetti_Triton_XX.avi"
Dark Video Sequenze 2:	"GNO_Sposetti_Dark _02.avi"

Good luck and clear skies!