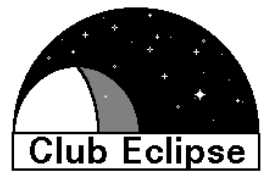


Salvia Observatory (53 France)

Thierry Midavaine¹

1-Club Eclipse Paris



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BACKGROUND

Club Eclipse Paris 1979 member

Private Amateur Observatory, created in 2008.

Settled at Saulges, a known village for a canyon and paleological cave.

Several telescopes

Operational main instrument: C14

LOCATION

Countryside deep sky background

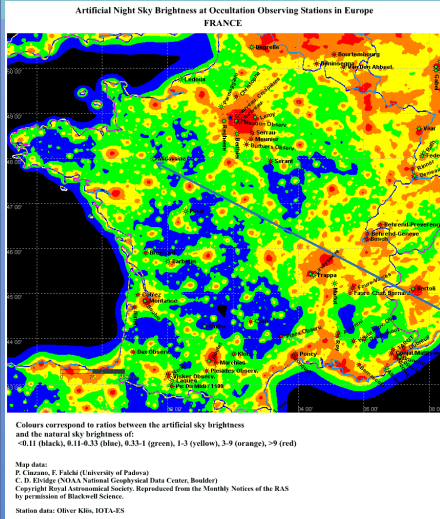
Typical seeing : 1,5 - 2 arcsec

SQM Magnitude : 21,4 - 21,9

Night sky pollution 56-111 μ Cd/m² (Felchi 2016)

IAU 173 Salvia Observatory

Location : 47°59'N, 0°24'W, alt 97m



TELESCOPE

- Schmidt Cassegrain C14 on CGE mount, GoTo PC driven with Prism
- Diameter 0,356m, focal length : 3,91m, 2,24m et 1,37m (2 focal reducers)
- CCD camera : Atik 460 N&B Sony ICX694ALG 2749x2199 4,5 μ m pitch
- Full Well 18000e, 5° read out noise, 16 bit, $\Delta T = -25^{\circ}C$ or $-10^{\circ}C$
- EMCCD Video Camera time stamped with TIM10
- DSLR Canon 500D
- Test on QHY 174-GPS camera on occultation
- CCD Camera Eternaude Eventaude KAF400

RESULTS

Equatorial Drift 0,3arcsec/min.

Periodic amplitude : 480s 12arcsec

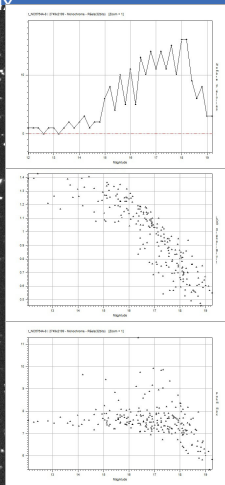
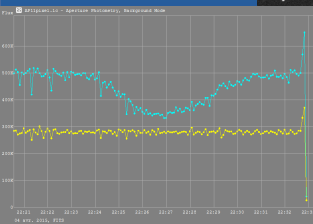
Sky background irradiance : Mag 19/arcsec²,

Stellar limited Magnitude in 60s : 18 -19

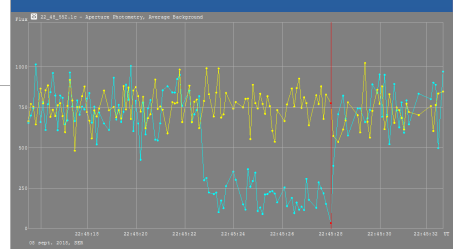
NGC 6764 : F/D = 3,8 exp 60s field 31 arc min 0,7 arc sec / pix



Pheму 4 avril 2015 2 E3
Audine Eventaude
200ms exposures



8 sept 2018 Evelyn Occultation
Camera QHY 174-GPS with Tangra processing



OTHER ACTIVITIES

Open Astronomical events, outreach and public dissemination:
Nuits des étoiles, Nuits astronomiques de Mayenne, Talks, Conférences, Astronomical meetings

Amateur Astronomical projects, Amateur Professionals Collaborations
Technologies and cameras testing within Club Eclipse
50cm telescope in progress

38th European Symposium on Occultation Projects (ESOP)



Paris Observatory
August 31st - September 1st
2019