

ObservationReport

all measures in mm

Observation-ID

0422 v 01

on

2026-03-18 20:00

Rating

Status

Published



| | |
|--------------------------|---------------------------------|
| Main Object | IC410 |
| Common Name | Tadpole Nebula |
| Alternate Name | LBN807 |
| Visual Mag. Size | 7,50 11.0' |
| Distance | 12,400 ly |
| Object R.A. DEC coord. | 05h 22m 44.0s 61° 23' 49.2" |
| Description | Open Star Cluster |
| Constellation | Auriga |
| Other Objects | |



20260318_NGC1893_ASI2600_0422-01.jpg

| | |
|------------------|---|
| StarImage Link | OID0422 |
| Telescopius Link | https://telescopius.com/de |
| Wikipedia Link | https://en.wikipedia.org/wi |

Image Properties

| | | | |
|-------------------------|----------------------------------|----------------------|----------------------------------|
| Source Format | Photo | Optical Scale ["/px] | 0,4822 |
| Tot./Act. Frames/Pane | 40 30 | Picture Center R.A. | 5h22m39.540s |
| H / V Panes | 1 1 | Picture Center DEC | +33°21m15.76s |
| Exp. [s] / Frame | 180 | FoV measured H/V [°] | 0,837 0,559 |
| Total Time / Pane [min] | 90,00 90,00 | Above horizon [°] | 61° 40' 4,6" |
| | | View Direction | WSW 243° 7' 9,7" |

Camera Data

ZWO Optical

ASI2600MCAir

ZWOASI2600

| | | | |
|------------------|----------|------------------|-------|
| Camera Angle [°] | -146,296 | Pixel Pitch [µm] | 3,761 |
| Gain or ISO | 120 | Camera Temp. °C | -10 |

Observation Site

| | | | |
|-------------------|--------------------------------|-------------------------|----------------------------|
| Observation Start | 2026-03-18T20:00:00 UTC+/- +1h | Observation End | 2026-03-18T20:00:00 |
| Observation Site | DE Göttingen Weende | Site Elevation / Bortle | 182 4 |
| Province | NDS | Site Coordinates | 9° 56' E; 51° 34' N |

Sky & Moon

| | | | |
|--------------------------|--------------------------------------|---------------------|--|
| Sky Index Total Clouds | 3,5 29 % | Moon Rise Set | 06:23:00 19:26:00 |
| SQM Outside Temp. °C | 19,88 5 | Moon Age [d] | 0 |
| Moon Phase % Illum. | 4th quarter 0 % | Moon ► Target Dist. | UNKNOWN |

Optical Configuration

TS1624cASI2600CAA

TS1624cASI2600rtT239CAA

| | | | |
|-------------------|----------------------------|--------------------------------|--|
| Lens or Scope | TSO RC 203/1624c | Mechanical Focuser | M90 TS1624 Rack Pinion Focuser (Tilt Flange) |
| Type Of Build | Ritchey-Chretien Reflector | Electronic Focuser | <input checked="" type="checkbox"/> |
| Brand | TS-Optics | Focuser Position Steps | 4170 [mm] 13,74 |
| Additional Optics | M54 ZWO ASI CAA Rotator | Optical Factor | 1 |
| Filter | Optolong 2" L-eNhanche | FoL norm actual [mm] | 1609 1608,833 |
| Diameter [mm] | 203 | DawesLimitLink | 1,46 Arcsec |
| Aperture / f-stop | 7,93 | | |

Other Hardware & Software

| | | | |
|----------------------|---------------------------------|------------------|--|
| Guide Scope + Camera | ZWO 30/120 mini ASI2600MCAir | Mount | iOptron iEQ45 Pro |
| GuiderHW | ASIAIR | SessionControl | ASIAIR |
| GuiderSW | ASIAIR | PostProcessingSW | PI-WBPP, GraXpert, BlurXTerminator, PI-SPCC, NoiseXTerminator, StarXTerminator, PI-MAS |

More ... (see also next page)

| | |
|---------------|---|
| Work Folder | 2026\20260318_0422_IC410_WEENDE |
| Comment/Title | Tadpole Nebula (IC410) in Auriga |

Remarks

Session Results

After disabling 10 frames during frame selection:

FWHM Medium: 6.632

Eccentricity: 0.4457

PSF Signal Weight: 0.8339

Post Processing

Image selection, registration, background enhancement and color correction were done in PixInsight.

Culling

Blink

SubframeSelector

Alignment and Integration

FBPP: Fast Batch PreProcessor (Autocrop, Drizzle)

WBPP Weighted Btch PreProcessor (Autocrop, Drizzle)

Linear Image Processing

DC: Dynamic Crop + Plate Solve

GX: GraXpert

BX: BlurXTerminator

SPCC: Spectrometric Color Calibration

NX: NoiseXTerminator

Splitting and De-Linearizing the image

SX: StarXTerminator: splitting the image into Stars and DSO objects

Stars Image:

HT: Histogram Transfer

CT: Curves Transformation

DSO Image:

MAS: Multiscale Adaptive Stretch

FAME: Free Hand Adaptive Mask to enhance the DSO image

CT: Curves Transformation

Combining Stars and DSO Image

PixMath: Add DSO and Stars into final image

No further image post processing was required.

No color or hue changes were made; the final image has natural colors.

Image Keywords

ObservationID=#0422, NGC1893, , ****, Constellation=Auriga, 2026, MRZ, Type=Photo, Site=Göttingen Weende, DE, Config=TS1624cASI2600CAA, D=203mm, f/7.9, f=1609mm, Filter=OLeN, Gain=120, Lens=TS1624c, LensName=TSO RC 203/1624c, Mount=iOptron iEQ45 Pro, n=30, OtherOptics=M54 ZWO ASI CAA Rotator, PanesH=1, PanesV=1, Status=PostProcessed, t=180s, ZWOASI2600, AstroSW=PI-WBPP, AstroSW=GraXpert, AstroSW=BlurXTerminator, AstroSW=PI-SPCC, AstroSW=NoiseXTerminator, AstroSW=StarXTerminator, AstroSW=PI-MAS