

ObservationReport

all measures in mm

Observation-ID

0229 v 02 on

2018-09-12 22:09

Rating

Status

PostProcessed



| | |
|--------------------------|--------------------------------|
| Main Object | M17 |
| Common Name | Omega Nebula |
| Alternate Name | Sharpless 45 |
| Visual Mag. Size | 6,00 11' |
| Distance | 4.000 - 6.000 ly |
| Object R.A. DEC coord. | 18h 20m 26s -16° 10' 36" |
| Description | Emission and reflection nebula |
| Constellation | Sagittarius |
| Other Objects | |



20180912_M17_FUJXT1_0229-02.jpg

StarImage Link [OID0229](#)

Telescopius Link

Wikipedia Link <https://en.wikipedia.org/wi>

Image Properties

| | | | |
|-------------------------|-----------|----------------------|---------------|
| Source Format | Photo | Optical Scale ["/px] | 0,4783 |
| Tot./Act. Frames/Pane | 16 14 | Picture Center R.A. | 18h20m36.372s |
| H / V Panes | 1 1 | Picture Center DEC | -16°11m07.73s |
| Exp. [s] / Frame | 30 | FoV measured H/V [°] | 0,649 0,429 |
| Total Time / Pane [min] | 7,00 7,00 | Above horizon [°] | 0 |
| | | View Direction | N |

Camera Data

| | | | |
|--------------------|-----------------|------------------|---------------|
| Camera Data | FUJIFILM | FUJXT1 | FUJXT1 |
| Camera Angle [°] | 13,421 | Pixel Pitch [µm] | 4,827 |
| Gain or ISO | 6400 | Camera Temp. °C | 20 |

Observation Site

| | | | |
|-------------------|-------------------------------|-------------------------|------------------------------|
| Observation Start | 2018-09-12T22:09:01 UTC+/- +h | Observation End | 2018-09-12T22:09:41 |
| Observation Site | ES LP - Llanos de Jable | Site Elevation / Bortle | 1350 3 |
| Province | La Palma | Site Coordinates | 28° 37' 02.3" N, 017° 50' 51 |

Sky & Moon

| | | | |
|--------------------------|-------|---------------------|---------|
| Sky Index Total Clouds | ? % | Moon Rise Set | |
| SQM Outside Temp. °C | ? °C | Moon Age [d] | 0 |
| Moon Phase % Illum. | ? 0 % | Moon ► Target Dist. | UNKNOWN |

Optical Configuration

| | | | |
|------------------------------|--------------------|--------------------------------|-----------------------------|
| Optical Configuration | ME2082FUXT1 | ME2082FUJXT1 | |
| Lens or Scope | Meade 203/2082 | Mechanical Focuser | - |
| Type Of Build | Cassegrain | Electronic Focuser | <input type="checkbox"/> |
| Brand | Meade | Focuser Position | 0 [mm] |
| Additional Optics | - | ► Optical Factor | 1 |
| Filter | NONE | FoL norm actual [mm] | 2082 1967,503 |
| Diameter [mm] | 203 | DawesLimitLink | 1,13 Arcsec |
| Aperture / f-stop | 10,26 | | |

Other Hardware & Software

| | | | |
|----------------------|-----------------------|------------------|---|
| Guide Scope + Camera | NONE BREGPCMOS02000KP | Mount | EQ6R-PRO |
| GuiderHW | NONE | SessionControl | NONE |
| GuiderSW | NONE | PostProcessingSW | PI-PixInsight, GraXpert, BlurXTerminator, PI-SPCC, NoiseXTerminator, StarXTerminator, PI-HistogramTransformation, PI-CT |

More ... (see also next page)

Work Folder [2018\20180912_0229_M17_Llanos-de-Jable](#)

Comment/Title [Omega Nebula \(M17\)](#)

Session Planning

There was no guide scope or guide camera available with this equipment, so I had to rely entirely on good polar alignment and tracking.

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 Batch 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:

HT: Histogram Transfer
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=#0229, M17, Omega Nebula, ***, Constellation=Sagittarius, 2018, SEP, Type=Photo, Site=LP - Llanos de Jable, ES, Config=ME2082FUXT1, D=203mm, f/10.3, f=2082mm, Filter=NONE, Gain=6400, Lens=ME2082, LensName=Meade 203/2082, Mount=EQ6R-PRO, n=10, OtherOptics=-, PanesH=1, PanesV=1, Status=PostProcessed, t=30s, FUJXT1, AstroSW=PS, AstroSW=LRC, AstroSW=PI-PixInsight