

ObservationReport

ObservationID

0343

on

2024-12-28 19:43

all measures in mm



Object	NGC891
Common Name	Silver Sliver Galaxy
Alternate Name (s)	
Visual Magnitude	9,89
Distance ► Object	33 Mly
Apparent Size	11,7x1.6'
Object R.A.	02h 24m 07.27s
Object DEC	+42° 27' 41.0"
WikiLink	https://en.wikipedia.org/wiki/NGC_891



20241228_NGC891_ASI294_0343-01WM.jpg

Link ► Picture	NGC891_20241228
Description	Spiral Galaxy
Constellation	Andromeda

Picture Data

Work Status	Recorded	Rating	***
Source Format	Photo	Picture Center R.A.	2h 22m 33.449s
Tot./Act. Frames/Pane	50 50	Picture Center DEC	+42° 20' 42.59"
H / V Panes	1 1	H/V FoV [°]	0,6739 0,4586
Exp. [s] / Frame	180	Above horizon [°]	80
Total Time / Pane [min]	150,00 150,00	View Direction	S

Camera Data

ZWO Optical	ASI294MC Pro	ZWOASI294	
Camera Angle [°]	311,94	Pixel Pitch [µm]	4,63
Gain or ISO	120	Camera Temp. °C	-10

Observation Site

Observation Start	2024-12-28T19:43:53 UTC+/- +1h	Observation End	2024-12-28T22:30:10
Observation Site	DE Göttingen MBR	Site Elevation /Bortle	182 5
Province	NDS	Site Coordinates	51° 34' N, 9° 56' E

Sky & Moon

Sky Index Total Clouds	1,7 14 %	Moon Rise Set	16:21:00 14:17:00
Outside Temp. °C	-2	Moon Age [d]	27,5
Moon Phase % Illum.	4th quarter 5 %	Moon ►Target Dist.	UNKNOWN

Optical Configuration

TS1624AS294rt	TS1624ASI294rtT226		
Lens or Scope	TSO RC 203/1624	Focuser	M90 2.5" Rack Pinion Foc
Type Of Build	Ritchey-Chretien Reflector	Focuser Position [mm]	28,70 EAF Steps 8711
Brand	TS-Optics	Optical Factor	1
Additional Optics	-	FoL norm actual [mm]	1624 1603
Filter	Optolong 2" L-eNhanche	DawesLimitLink	1,45 Arcsec
Diameter [mm]	203	Optical Scale ["/px]	0,588
Aperture / f-stop	8,00		

Other Hardware & Software

GuideScope	ZWO 30/120 mini	Mount	iOptron iEQ45 Pro
GuiderHW	ASIAIR	SessionControl	ASIAIR
GuiderSW	ASIAIR	PostProcessingSW	NoiseXTerminator, BlurXTerminator, GraXpert, PixInsight

More ...

Work Folder	2024\20241228_NGC891_0343_GOE-MBR
Comment	
Remarks	1. Session Planning

I was looking for a target close to the zenith to have a minimal impact on the sky

conditions, and I found this Silver Sliver Galaxy (NGC 891).

2. Location and sky

Unexpected nearly cloudless skies but high humidity (>90%) and temperatures below 0°C.

3. Session Results

Image quality after stacking (using FBPP in PixInsight) was poor with extreme background noise. Had to apply several steps during the post processing to get rid of the noise.

4. Plate Solving and Camera Rotation Results

311,94°

5. Post Processing

Steps involved in **PixInsight**:

- FBPP (Fast Batch Post Processing)
- PCC (Photometric Color Calibration)
- GraXpert
- DBE (Dynamic Background Extraction)
- HT (Histogram Transfer) for full expansion
- BlurXTerminate
- Star Reduction
- NoiseXTerminate

Final color saturation with **Lightroom Classic**.

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

6. Lessons Learned

This observation served only to check the collimation of the Ritchey-Chretien reflector.

7. Main logfile entries

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