ObservationReport

ObservationID 22 on 2022-03-27 20:29

Object	M51
CommonName	Whirlpool Galaxy
Alternate	NGC5194, NGC5195
Descpription	Spiral Galaxy
Constellation	Canes Venatici
Visual Magnitude	7,92
Apparent Size	13,7x11,7 arcmin
Distance ▶Object	28 Mly
Object R.A.	13h 30m 48,42s
Object DEC	+47° 04' 54.7"
Picture Center R.A.	13h 29m 59.552s
Picture Center DEC	+47° 11' 43.54"
WikiLink	https://en.wikipedia.org/wiki/Whirlpool_Galaxy

20220327_M51_ZWOAS294_0001_07_1280.jpg

Work Status	Published
Link ▶Picture	M51_20220327
Quality	****
Format:	Photo
Horizontal FoV [°]	0,6739
Vertical FoV [°]	0,4586
View Direction	NE 63,7°
Above horizon [°]	52,6°

Observation Start	2022-03-27T20:29:05 UTC +h	Observation End	2022-03-27T21:37:07
Observation Site	Göttingen MBR	Country Code	DE
Province	NDS	Elevation	182
Site Coordinates	51° 34' N, 9° 56' E	Bortle Index	5
Sky Quality	1,37	Outside Temp. °C	6
Seeing Index 1	5	Seeing Index 2	4
Moon Phase	1st quarter	Moon Age [d]	7,7
Moon Percent %	53,4	Distance▶Target	121°
MoonRise	11:17:00	MoonSet	00:53:00
Camera	ASI294MC PRO	Gain or ISO	120
Camera Angle	265,79	Camera Temp. °C	-10
Pixel Pitch [µm]	4,63		
Total Exposures	39	Exposure Time [s]	180
ActiveFrames	27	Total Time [min]	81
Optical Config.	Config218CS	FocalLength [mm]	1624
Short Descrpt.	TSO RC 203/1624	Diameter [mm]	203
Type Of Build	Ritchey-Chretien Reflector	Aperture / f-stop	8,00
Brand	TS-Optics	DawesLimitLink	1,45 Arcsec
Addtional Optics	100mm Extender	Optical Scale ["/px]	0,588
Filter	ClearSky		
GuideScope	Microspeed 50/200	Mount	iOptron iEQ45 Pro
PostProcessingSW	PixInsight, Photoshop	GuiderHW	ASiairPro
GuiderSW	ASiairPro	SessionControl	ASiairPro

Work Folder F:\FotosLibrary_Astro\2022 Astro\M51\20220327-213741

Remarks

2nd attempt to take a picture of this whirlpool galaxy with slightly improved weather conditions and better, but still not precise telescope collimation. Somehow the tracking made problems, so that about 10 of the 39 frames could not be properly registered and integrated (2 more frames had been cut-off by given time constraints by Asiair settings in Live mode).
Star alignment and image integration functions of PixInsight have been used as the weighted automatic batch procedure failed to match the images.