

ObservationReport

ObservationID

0417

on

2025-11-19 20:10

all measures in mm



Main Object	NGC7000
Common Name	North America Nebula
Alternate Name	Caldwell 20
Visual Mag. Size	4,00 120 × 100'
Distance	2590 ly
Object R.A. DEC coord.	20h 59m 17.1s +44° 31' 44"
Description	Emission Nebula
Constellation	Cygnus
Other Objects	



20251119_NGC7000_FUJXT3_0417-01WM.jpg

StarImage Link [OID0417](#)

Telescopius Link

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

Image Properties

Work Status	Published	Rating	***
Source Format	Photo	Picture Center R.A.	20h 55m 22.239s
Tot./Act. Frames/Pane	20 20	Picture Center DEC	+45° 10' 25.086"
H / V Panes	1 1	FoV measured H/V [°]	9,949 6,613
Exp. [s] / Frame	30	Above horizon [°]	51;8°
Total Time / Pane [min]	10,00 10,00	View Direction	NW 307°
Camera Data	FUJIFILM	FUJXT3	FUJXT3
Camera Angle [°]	272,1	Pixel Pitch [µm]	3,740
Gain or ISO	1600	Camera Temp. °C	16

Observation Site

Observation Start	2025-11-19T20:10:00 UTC+/- +h	Observation End	2025-11-19T20:33:00
Observation Site	ES LP - La Palma Jardin	Site Elevation / Bortle	470 4
Province	La Palma	Site Coordinates	28° 38' 52.0" N, 017° 53' 47

Sky & Moon

Sky Index Total Clouds	3,9 100 %	Moon Rise Set	07:35:00 18:12:00
SQM Outside Temp. °C	0 15	Moon Age [d]	29,2
Moon Phase % Illum.	4th quarter 0,2 %	Moon ► Target Dist.	UNKNOWN

Optical Configuration

Lens or Scope	Fujinon XF 18-135mm	Mechanical Focuser	-
Type Of Build	Camera Lens	Electronic Focuser	☐
Brand	Fujifilm	Focuser Position	0 [mm] 0,00
Additional Optics	-	► Optical Factor	1
Filter	-	FoL norm actual [mm]	135 135
Diameter [mm]	67	DawesLimitLink	<u>5,76 Arcsec</u>
Aperture / f-stop	5,60	Optical Scale ["/px]	5,715

Other Hardware & Software

GuideScope	ZWO 30/120 mini	Mount	ZWO AM3
GuiderHW	ASIAIR Pro	SessionControl	ASIAIR Pro
GuiderSW	ASiarr App	PostProcessingSW	PixInsight, GraXpert, BlurXTerminator, NoiseXTerminator, StarXTerminator

More ...

Work Folder	2025\20251119_NGC7000_0417_La-Palma-Jardin
Comment	North America Nebula (NGC7000)
Remarks	Test of the new FUXT3FU135Guide configuration based on a Fujifilm X-T3 camera mounted

on a ZWO AM3 with a 17-135mm zoom lens and a ZWO 30/120 mini guide scope and ZWO ASI 120MM guide camera.

The light frames are slightly out of focus. The star shapes and sizes were corrected with BlurXTerminator, but the cloud features, which were processed separately, remain slightly blurred.

A better focusing alternative is needed for this configuration.