

ObservationReport

ObservationID

0413

on

2025-11-17 22:18

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	



20251117_NGC7000_ASI2600_0413-01WM.jpg

StarImage Link [OID0413](#)

Telescopius Link

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

Image Properties

Work Status	PostProcessed	Rating	****
Source Format	Photo	Picture Center R.A.	+44 19 21.50
Tot./Act. Frames/Pane	16 12	Picture Center DEC	+30 39 12.09
H / V Panes	1 1	FoV measured H/V [°]	2,248 1,502
Exp. [s] / Frame	180	Above horizon [°]	0
Total Time / Pane [min]	36,00 36,00	View Direction	N
Camera Data	ZWO Optical	ASI2600MCAir	ZWOASI2600
Camera Angle [°]	-121,831	Pixel Pitch [µm]	3,761
Gain or ISO	100	Camera Temp. °C	-10

Observation Site

Observation Start	2025-11-17T22:18:49 UTC+/- +h	Observation End	2025-11-17T23:05:05
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	4,5 24 %	Moon Rise Set	03:20:00 15:34:00
SQM Outside Temp. °C	21,07 17	Moon Age [d]	25,4
Moon Phase % Illum.	4th quarter 17 %	Moon ► Target Dist.	UNKNOWN

Optical Configuration

Lens or Scope	TSO APO 90/600	Mechanical Focuser	M90 TS600 Rack + Pinion Focu
Type Of Build	APO Triplet Refractor	Electronic Focuser	☒
Brand	TS-Optics	Focuser Position Steps	13255 [mm] 38,44
Additional Optics	M54 ZWO ASI CAA Rotator	▶ Optical Factor	1
Filter	Optolong 2" L-eNhance	FoL norm actual [mm]	599 1609
Diameter [mm]	90	DawesLimitLink	<u>1,74 Arcsec</u>
Aperture / f-stop	6,66	Optical Scale ["/px]	1,295

Other Hardware & Software

GuideScope	ASI2600 Guide Sensor	Mount	ZWO AM3
GuiderHW	ASIAIR Pro	SessionControl	ASIAIR Pro
GuiderSW	ASiair App	PostProcessingSW	PixInsight, GraXpert, BlurXTerminator, NoiseXTerminator, StarXTerminator

More ...

Work Folder	2025\20251117_NGC7000_0413_La-Palma-Jardin
Comment	North America Nebula (NGC7000) in Cygnus
Remarks	I was able to take advantage of a half-hour break in the clouds to take this photo.

Unfortunately, the wheather is otherwise very unstable during this season.