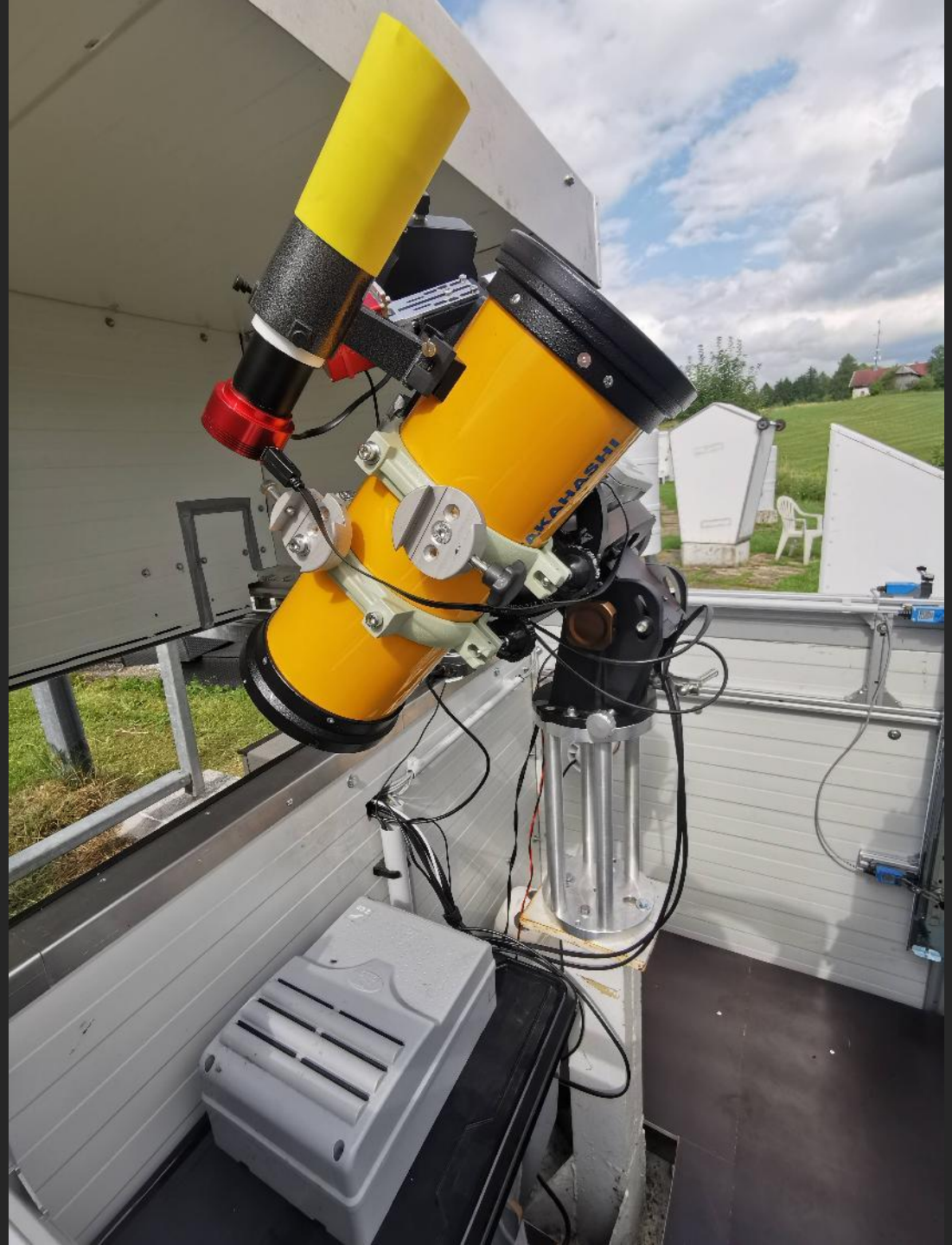
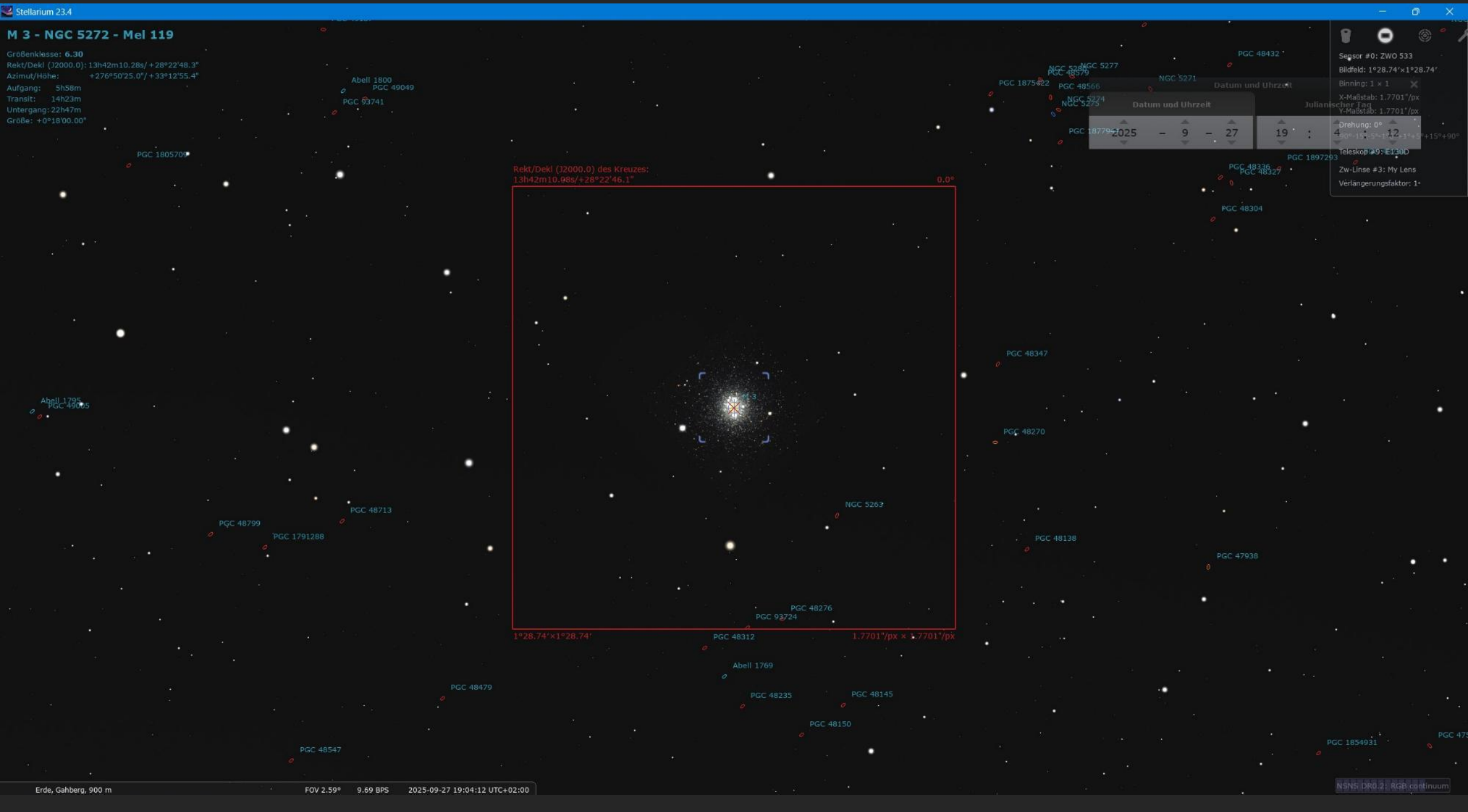
DR0.2
Ein Geschenk des Himmels

Oliver Schneider / AAS

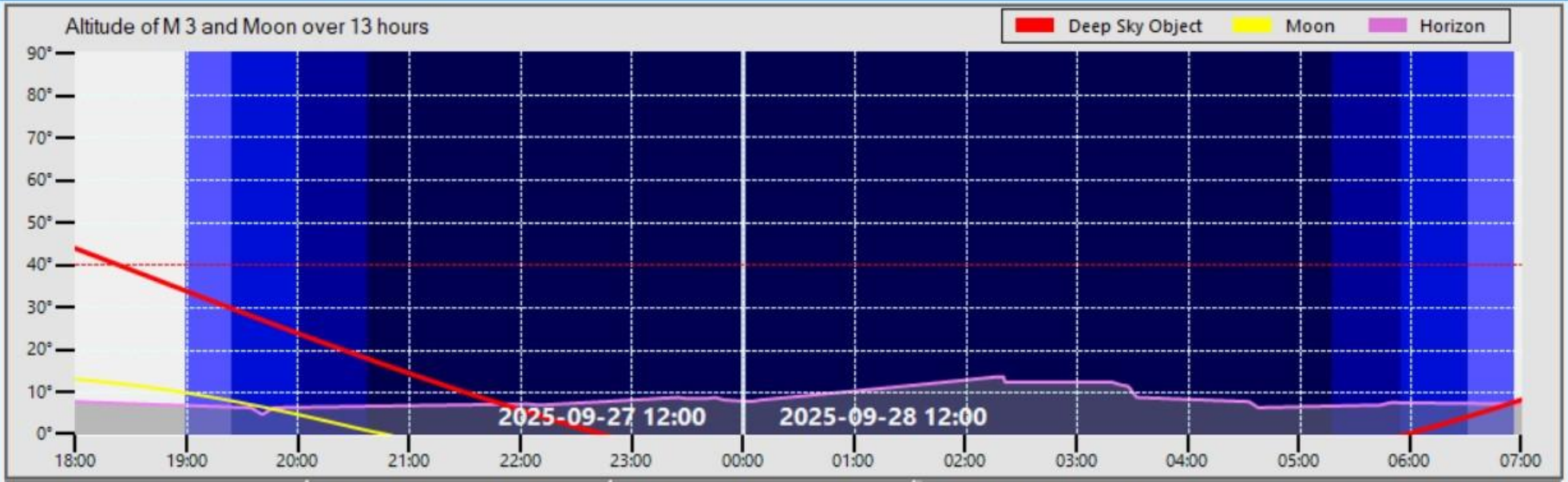

VKB Bank


AKAHASHI


Stellarium 23.4
Datum und Uhrzeit
Datum und Uhrzeit
Julianischer Tag
2025 – 7 – 27
19 : 4 : 12
Blinkender Planetarischer Nebel
Katzenaugen-Nebel
Juli-γ-Draconiden
Fuchskopf-Haufen
NGC 6791
PN G077.1+30.8
Vega
Ring-Nebel
M 92
Großer Sternhaufen im Herkules
Winnecke 4
Whirlpool-Galaxie
Sonne
NGC 2903
M 3
Coma-Haufen
Blaues Auge-Galaxie
M 85
M 53
Arcturus
Leo Triplett
Mond
M 49
Mars
Altair
LDN 648
Fliegendes-Einhorn-Haufen
SH 2-73
Sommer-Bienenkorb-Haufen
Rosenhaufen
IC 825
Spica
Sombrero-Galaxie
Geist-Kugelsternhaufen
Cr 401
O
SO
S
SW
W
Erde, Gahberg, 900 m
FOV 140°
4.06 BPS
2025-07-27 19:04:12 UTC+02:00


Stellarium 23.4
M 3 - NGC 5272 - Mel 119
Größenklasse: 6.30
Rekt/Dekl (J2000.0): 13h42m10.28s/ +28°22'48.3"
Azimut/Höhe: +276°50'25.0"/ +33°12'55.4"
Aufgang: 5h58m
Transit: 14h23m
Untergang: 22h47m
Größe: +0°18'00.00"
Rekt/Dekl (J2000.0) des Kreuzes:
13h42m10.08s/+28°22'46.1"
0.0°
1°28.74'×1°28.74'
1.7701"/px × 1.7701"/px
Datum und Uhrzeit
Julianischer Tag
2025 - 9 - 27
19 : 4 : 12
Sensor #0: ZWO 533
Bildfeld: 1°28.74'×1°28.74'
Binning: 1 × 1
X-Maßstab: 1.7701"/px
Y-Maßstab: 1.7701"/px
Drehung: 0°
Teleskop #9: E130D
Zw-Linse #3: My Lens
Verlängerungsfaktor: 1×
Abell 1800
PGC 49049
PGC 93741
PGC 1805709
PGC 48432
NGC 5277
PGC 48579
NGC 5271
PGC 1875422
PGC 48566
NGC 5274
NGC 5275
PGC 1877952
PGC 1897293
PGC 48336
PGC 48327
PGC 48304
PGC 48347
Abell 1795
PGC 49005
PGC 48270
PGC 48713
PGC 48799
PGC 1791288
NGC 5263
PGC 48138
PGC 47938
PGC 48276
PGC 93724
PGC 48312
Abell 1769
PGC 48479
PGC 48235
PGC 48145
PGC 48150
PGC 48547
PGC 1854931
Erde, Gahberg, 900 m
FOV 2.59°
9.69 BPS
2025-09-27 19:04:12 UTC+02:00
NSNS DR0.2: RGB continuum

CCD-Guide ObjectTracker, Version 4.3.9030.30361



Deep Sky Object

Find Name Select Ra/Dec

Name M 3

Find

Near Ra/Dec

Browse

Ra	13 42 11.200
Dec	28 22 34.000
Epoch 2025-09-27	
Ra	13 43 22.318
Dec	28 14 49.162

Date, Time and Location

Date 2025-09-27

Location Edit

Gahberg Observatory

TZone 1 hours

Daylight Saving Time

Lat	47 54 46.000
Lon	13 36 30.000
Height	860 meters

Object Time Window

Availability

Total	**.**
From	**.**
To	**.**
Culmination	14:22

Constraints

Object Altitude Limit [°]	40
Moon Distance Limit [°]	20
Moon Illumination Limit	0
Sun Altitude Limit [°]	-18

Horizon Limit

M 3 from 2025-09-27 12:00 to 2025-09-28 12:00

```
Summary      2025-09-27/28
==============================================================
Moon
        Rise             13:11
        Transit          17:01 Alt 14.43°
        Set              20:49

        Phase angle                    -113.10 [°]
        Average illumination             29.18 [%]
        Moon M 3 distance                69.83 [°]
        Moon Earth distance         404,296.68 [km]

        New Moon              2025-09-21 21:55:11
        First Quarter         2025-09-30 01:54:51
        Full                  2025-10-07 05:48:42
        Last Quarter          2025-10-13 20:13:52

Sun
        Sun Earth distance    149,920,623.31 [km]
```

JD 2461157.79680 LST 23:17:25

Chrome Remote Desktop - 3_Remote_1_Gahberg

N.I.N.A. - Nighttime Imaging 'N' Astronomy 3.2 - Asi533_EQ8

Ausrüstung
Sternenatlas
Rahmung
Flatassistent
Sequenzer
Aufnahmen
Optionen
Plugins

Bildquelle

Bildquelle: Offline-Himmelskarte

Koordinaten

Name: M 3
RA: 13 h 42 m 11.2 s
Dek: 28 d 22 m 31.5 s
Bildfeld: 2.00 °

Bild laden

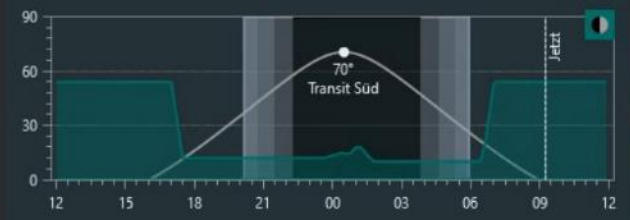
Camera Parameters

Breite: 3008
Höhe: 3008
Pixelgröße: 3.76 µm
Brennweite: 430 mm

Ziele

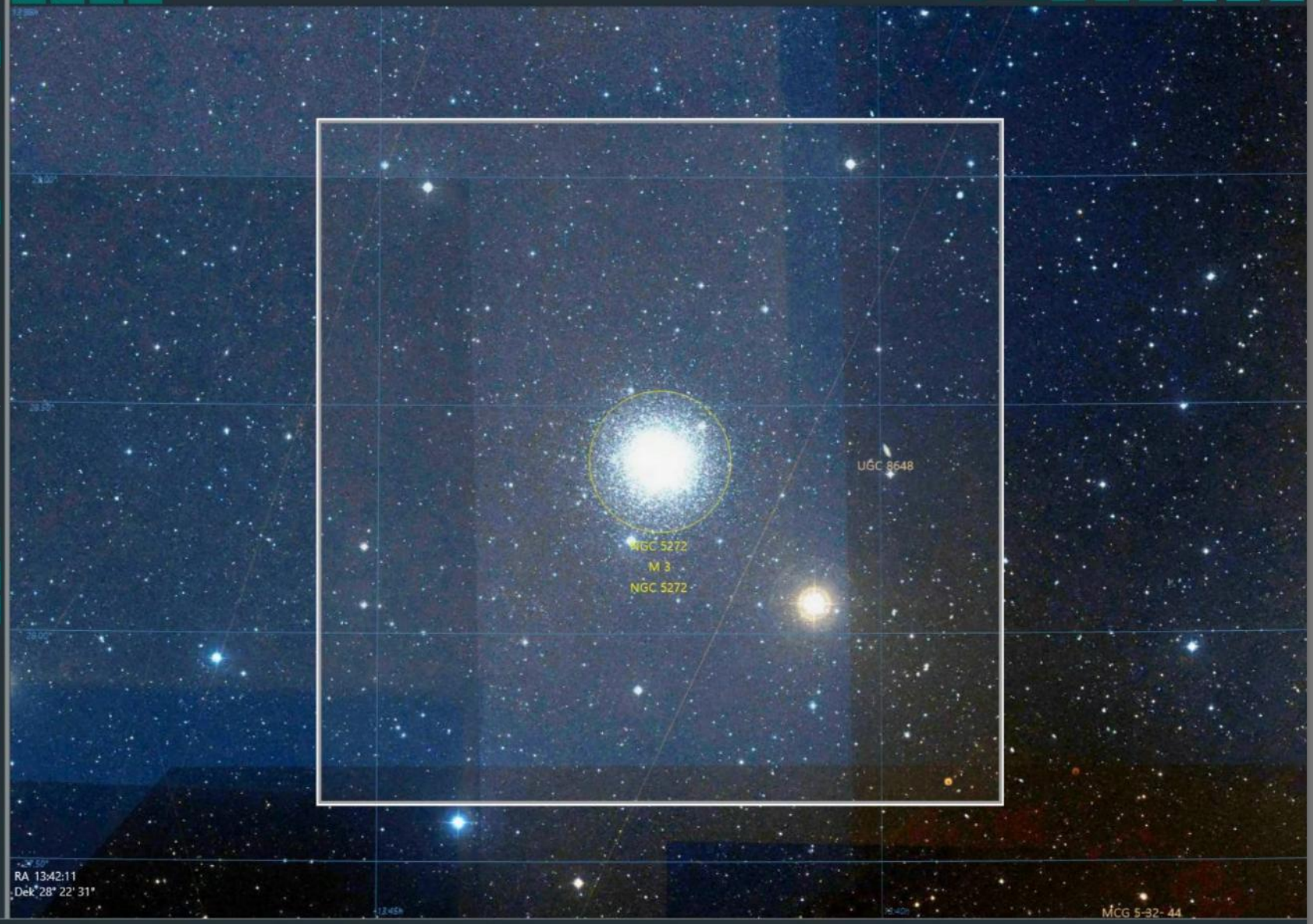
Horizontale Felder: 1
Vertikale Felder: 1
Drehung: 0 °

Drehung der Kamera bestimmen
Schwenken und Zentrieren
Ziel zu Sequenz hinzufügen



Toggle Catalogue Display

1:1 100 %
Opazität 0.10
NGC



Sync Service : Idle

Suche

09:15
27.04.2026

DR0.2
Ein Geschenk des Himmels

Oliver Schneider / AAS

Astrophotography by Stefan Ziegenbalg

Identifier or coordinate query ?

● Emission lines ● Continuum ● Both Identifier: e.g.: M32 Submit

RA/GLN: e.g.: 10:15 DEC/GLT: e.g.: -1:30 Diameter: optional, in ° RA/DEC GLN/GLT

Categories

Northern Sky Narrowband Survey

Nebulae: small-field (< 1°)

Nebulae: medium-field (> 1°)

Northern Sky Narrowband Survey: DR0.2

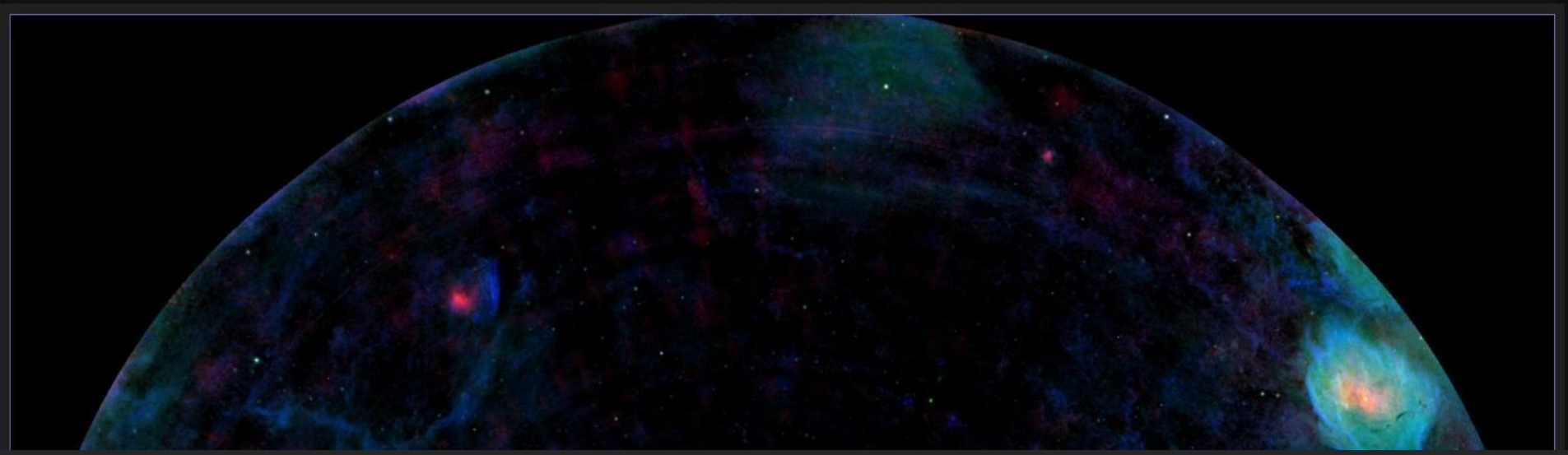
Data release DR0.2 contains the first complete data set of the emission line [OIII] at 500.7 nm and the [SII] doublet at 671.7 nm and 673.0 nm from instruments 6a and 6b, as well as updated results for Hα (instrument 3). A general description of the project can be found on page *Northern Sky Narrowband Survey*. Changes compared to DR0.1 are listed in section *Changes*.

The pre-processed data published here was calculated on 47 overlapping tiles with a size of 31° × 31°. Compressed 8-bit color images can be accessed in sections *Overview images* and *Tile images*. Full dynamic range images with linear intensity can be retrieved from an HiPS (Hierarchical Progressive Survey) repository. In order to assess the reliability of the data, sections *Data acquisition and processing* and *Artifacts and limitations* provide a brief description of the image processing and a detailed description of all known artifacts.

Overview images

The overview images shown below are 212° stereographic projections of the entire surveyed region. The projection type was used because it preserves shapes. Maximum image resolution in the JavaScript viewer (click on the images) is 30″ at the center (δ=90°) and about 11″ at boundary (δ=-16°). In the navigation mode of the Javascript viewer (press the 'N' key or click the 'N' button) it is also possible to browse to other views on this site (including the tile images).

Click on the images to load a high-resolution (1.3 GP) versions using a JavaScript viewer.



2024.

Images of the instruments

Since 2022, the instruments are arranged in two arrays. Photos of them can be found below. Click on the images for higher resolution versions.

All instruments are distributed across two arrays which are shown above.

Hα instruments (3 and 4; the four smaller lenses) and the continuum cameras (5a to 5c; the three large lenses).

Northern Sky Narrowband Survey: Instruments

A survey of the northern sky, focusing on emission lines Hα (656.3 nm), [OIII] (500.7 nm), and [SII] (671.7 nm and 673.0 nm), but also collecting continuum data, started at the end of 2018. The entire northern hemisphere down to a declination of -16° is being surveyed.

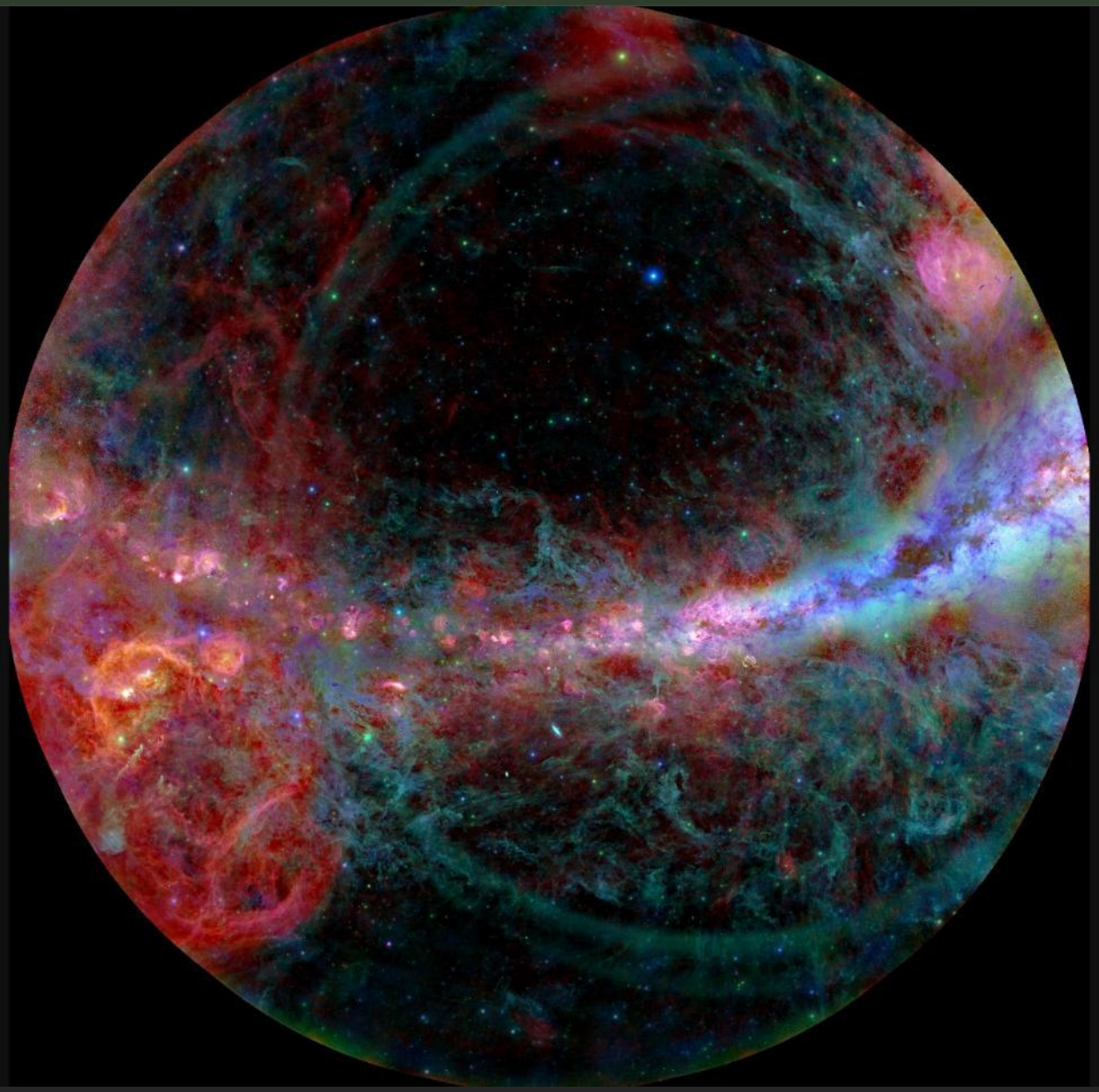
This page gives an overview of the instruments. Results of the survey can be found in the sections *data releases* and *images*.

Instruments

Below are two tables. The first describes the different instruments, and the second lists how many of the instruments from the first table were active during each period. The column *angular resolution* in the first table contains the FWHM of a point source.

Instrument index	Emission line, FWHM Bandwidth / Passband / Filter	Field of view	Aperture	Focal length	Angular resolution	Comment
1	656.3 nm (Hα, emission line of HII), 3.5 nm	7.6° × 5.8°	5 cm	135 mm	9"	Panasonic MN34230 sensor
2	Bayer CFA + Light pollution filter	f15.5° × 10.3°	7 cm	135 mm	17"	DSLR camera
3	656.3 nm (Hα, emission line of HII), 3.5 nm	7.6° × 5.8°	6 cm	135 mm	9"	Panasonic MN34230 sensor
4	656.3 nm, 35 nm	7.6° × 5.8°	5 cm	135 mm	9"	Panasonic MN34230 sensor. See below.
5a	410 nm to 550 nm (SDSS G')	6.8° × 4.5°	10 cm	300 mm	7"	Sony IMX455 sensor
5b	555 nm to 650 nm (SDSS R' + 400 nm to 650 nm bandpass)	6.8° × 4.5°	10 cm	300 mm	7"	Sony IMX455 sensor, Hα is blocked
5c	695 nm to 845 nm (SDSS I')	6.8° × 4.5°	10 cm	300 mm	7"	Sony IMX455 sensor
6a	505.7 nm (emission line of OIII), 4 nm	10° × 6.8°	6 cm	135 mm	10"	Sony IMX571 sensor
6b	671.7 nm and 673.0 nm (emission lines of SII), 4 nm	10° × 6.8°	6 cm	135 mm	10"	Sony IMX571 sensor

Instrument index:	1	2	3	4	5a	5b	5c	6a	6b
Nov 2018 to Apr 2020	4	2							
Apr 2020 to Jul 2020	1	2	3						
Jul 2020 to Jan 2022		2	3	1					
Jan 2022 to Sep 2022		2	3	1	1	1	1		
Sep 2022 to Dec 2023			3	1	1	1	1		
Dec 2022 to Apr 2023			3	1	1	1	1	1	1
Apr 2023 to Jan 2024			3	1	1	1	1	2	3
Jan 2024 to Sep 2024			3	1	1	1	1	3	3
Since Sep 2024			4		1	1	1	3	3

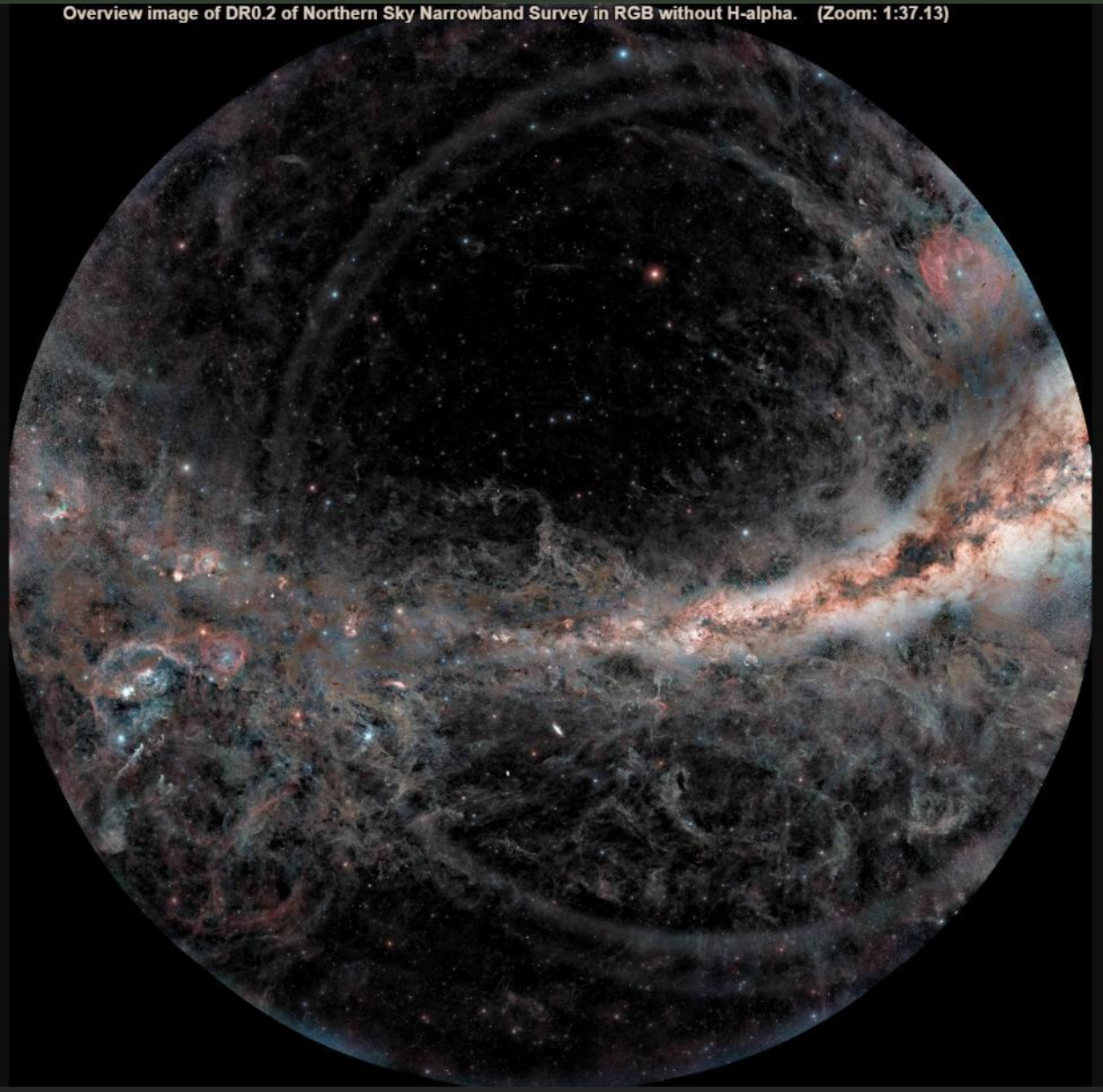


Overview image of DR0.2 of No

simg.de/nebulae3/dr0_2/full-rgb.vhtml

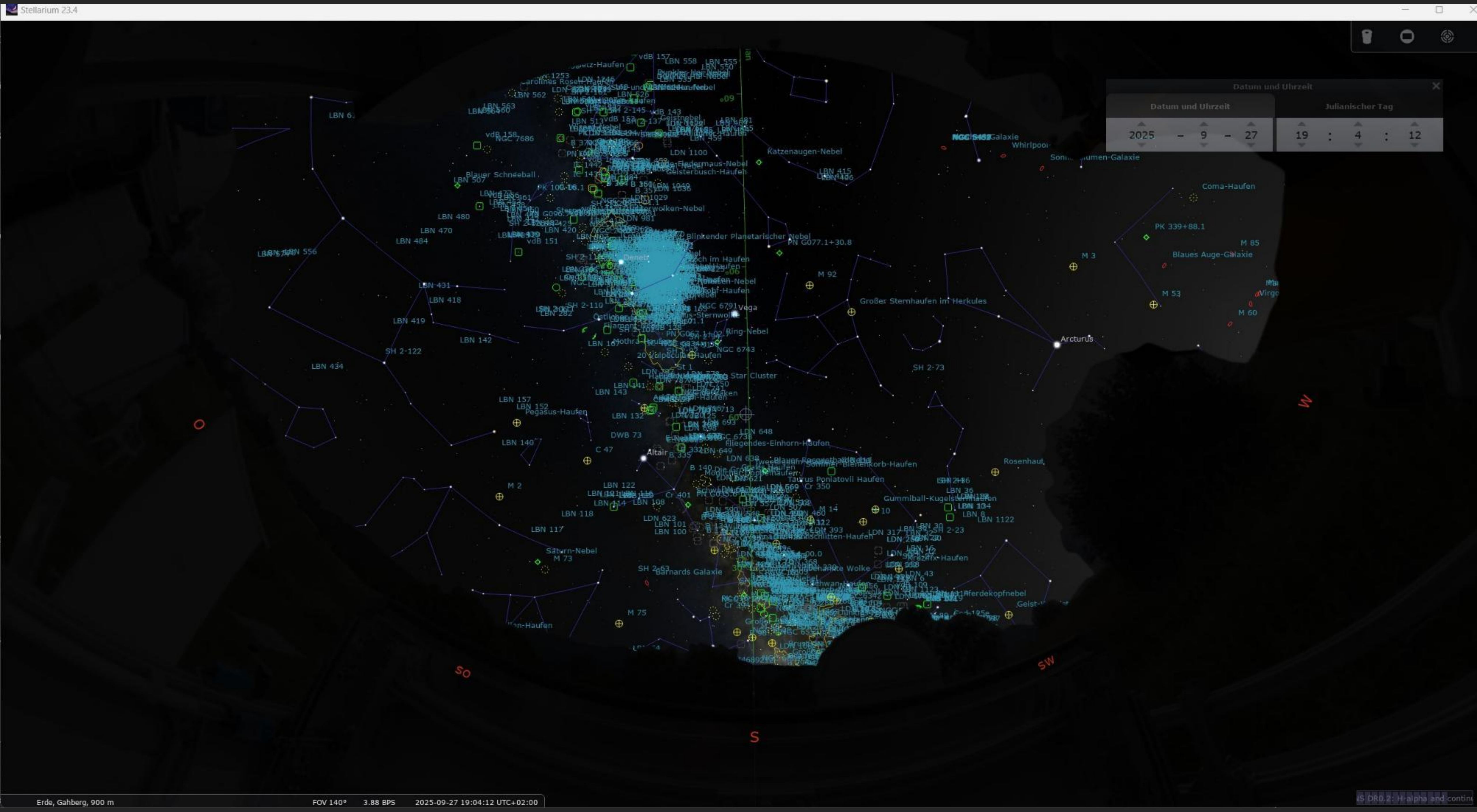
AllSky7.net | Legacy Survey Sky B... | Filter - AstroBin | Les Astrographes N... | Northern Sky Narro... | Bandscheibenvorfall... | Rosettennebel - All... | Bereich für Mitglieder | Vortrag_Martin | Seiichi Yoshida's Ho... | S30pro_Zubehör | Planeten_Hardware | Planetary Camera –...

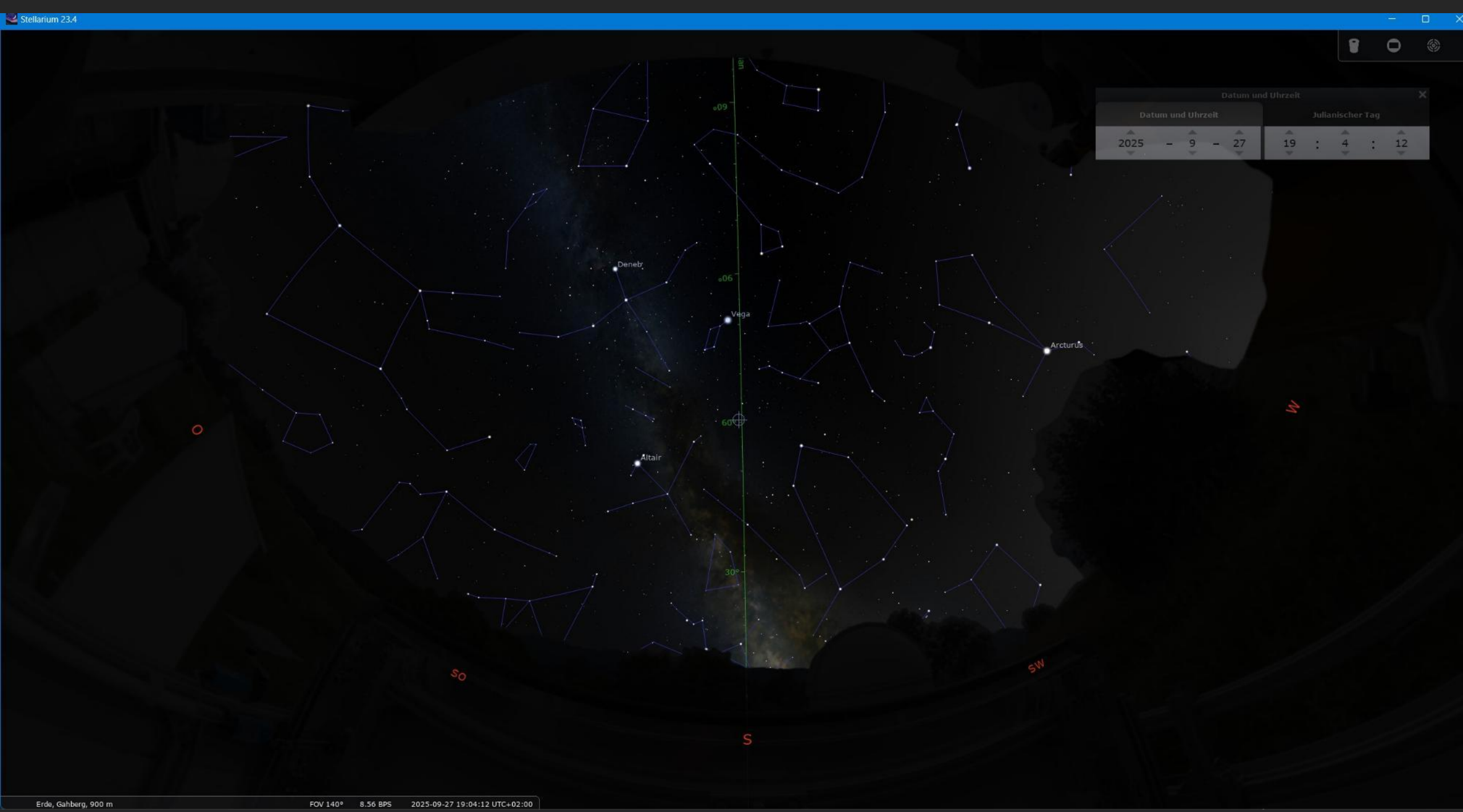
Overview image of DR0.2 of Northern Sky Narrowband Survey in RGB without H-alpha. (Zoom: 1:37.13)



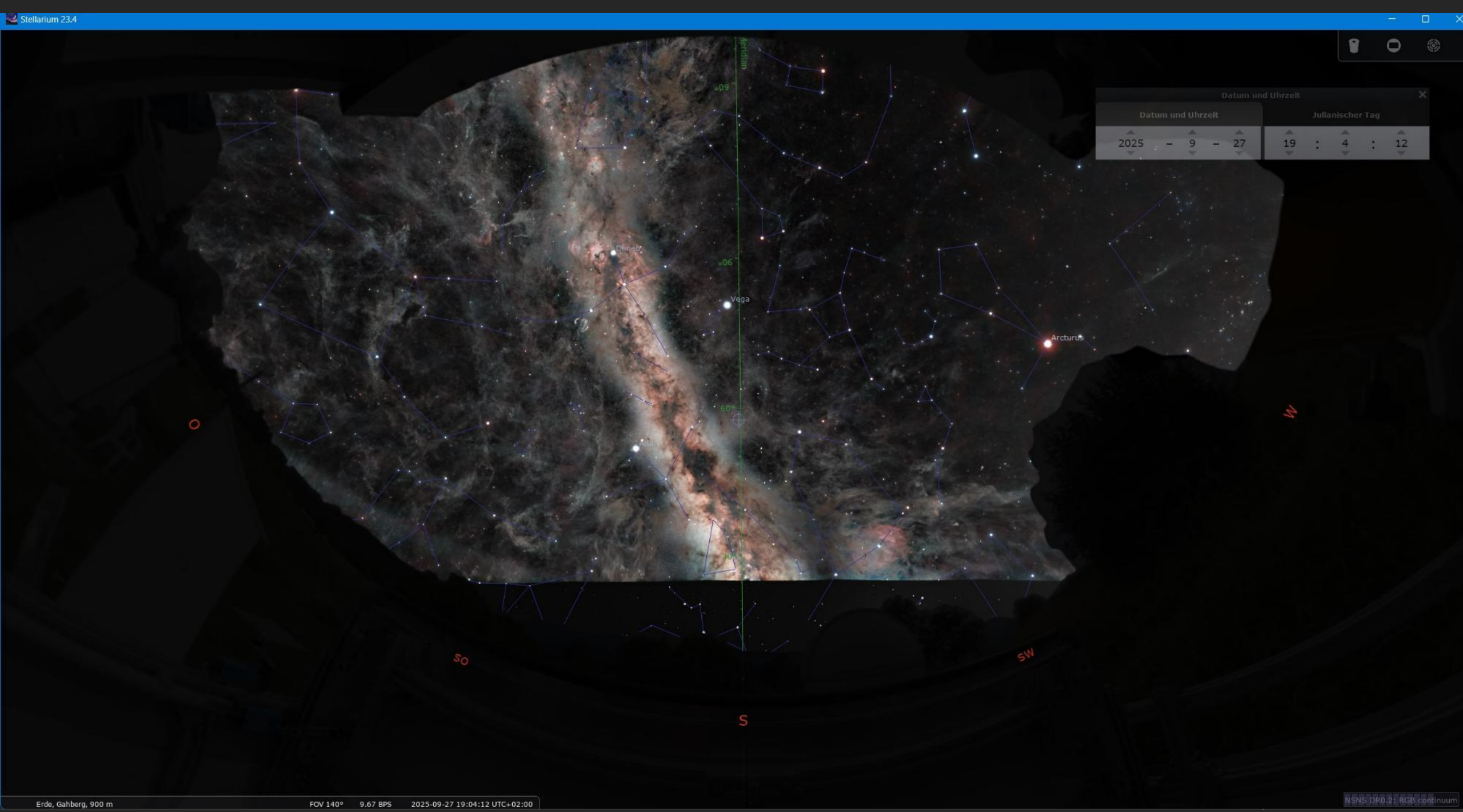
i n ?

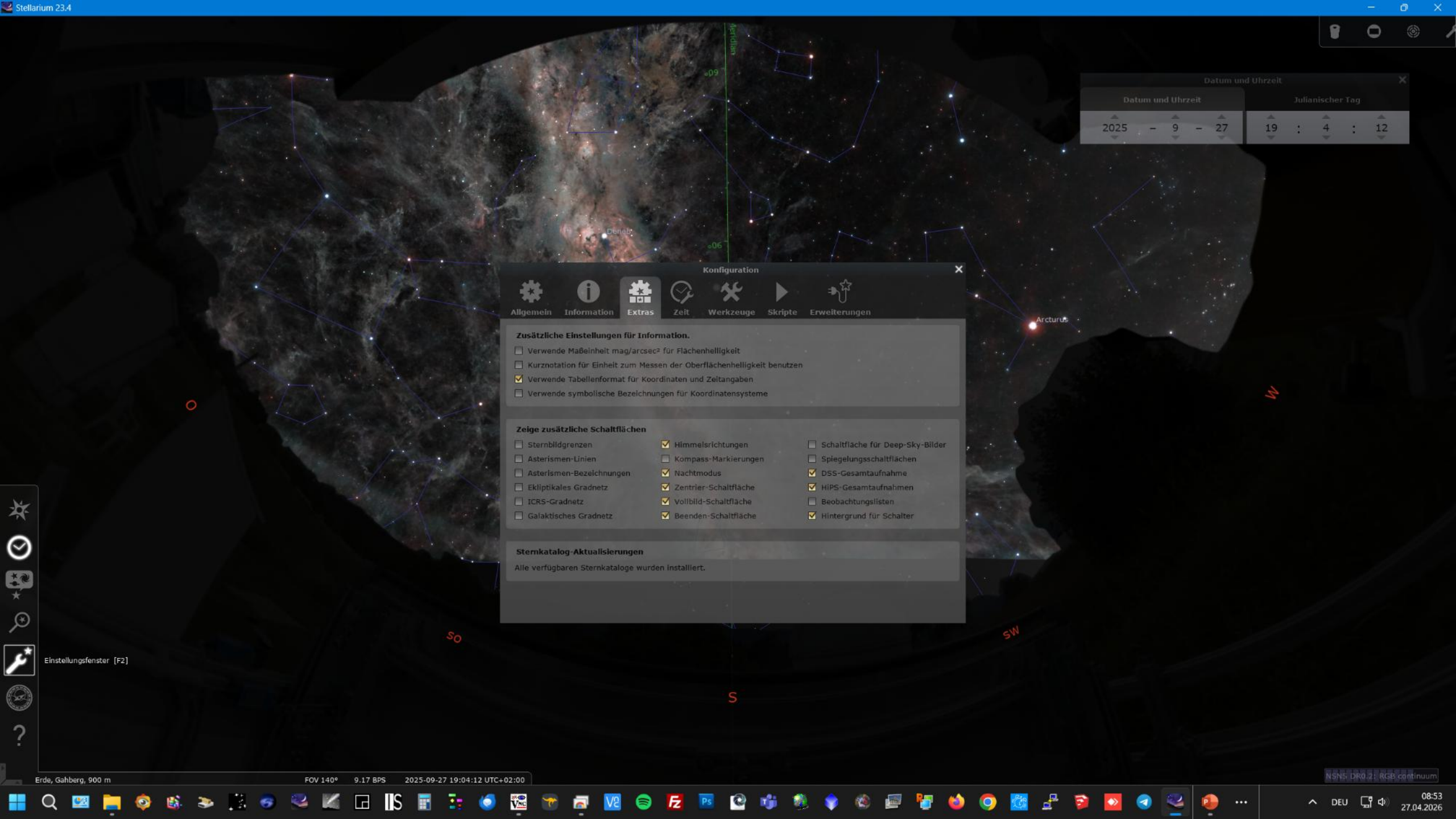
NGC 3610

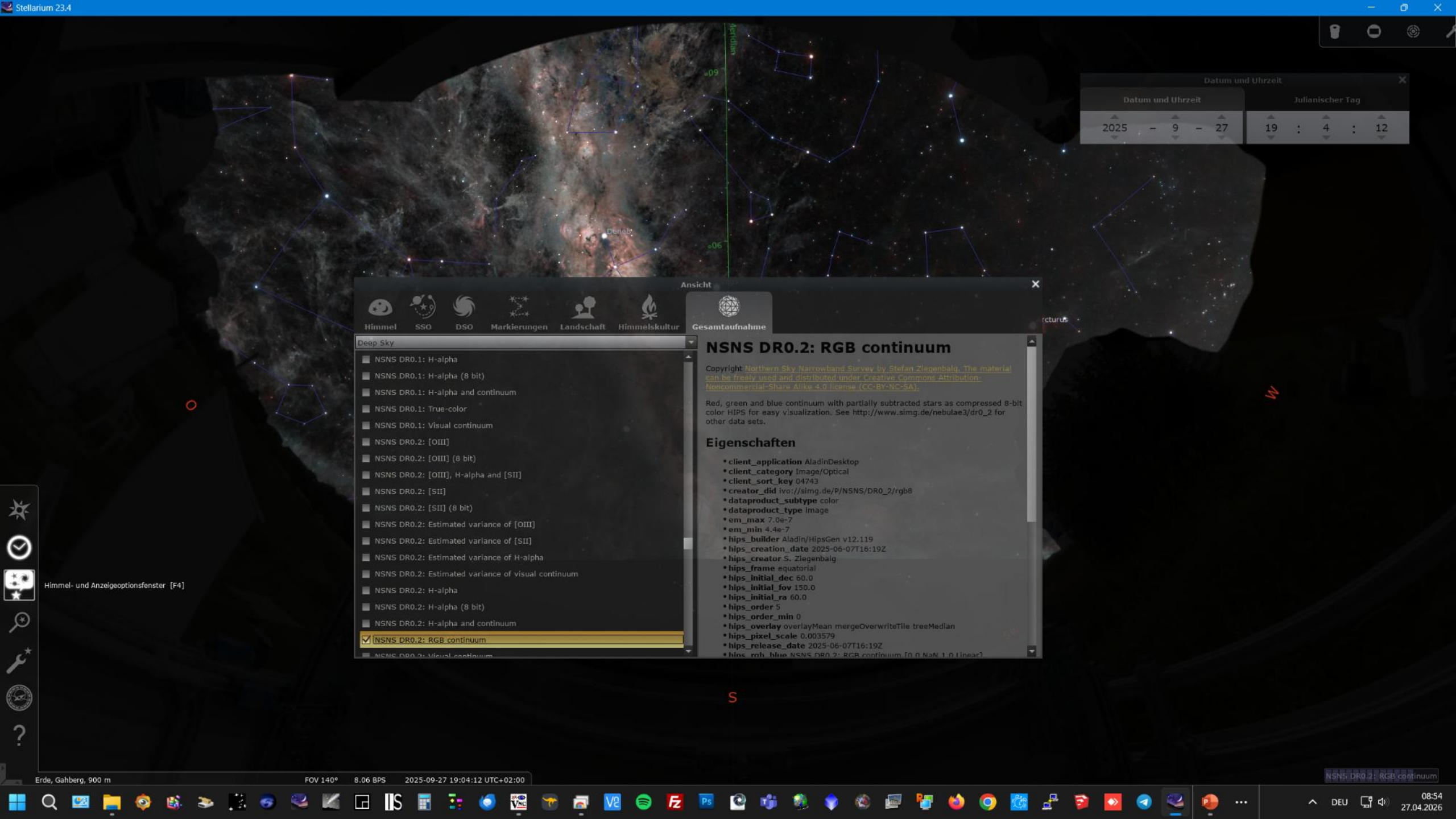

Stellarium 23.4
Datum und Uhrzeit
Datum und Uhrzeit
Julianischer Tag
2025 – 9 – 27
19 : 4 : 12
Deneb
Vega
Altair
Arcturus
Ring-Nebel
Katzenaugen-Nebel
Blauer Schneeball
Pegasus-Haufen
Großer Sternhaufen im Herkules
Coma-Haufen
Blaues Auge-Galaxie
Barnards Galaxie
Saturn-Nebel
Rosenhaut
Whirlpool
M 2
M 3
M 14
M 53
M 60
M 73
M 75
M 85
M 92
O
SO
S
SW
W
Erde, Gahberg, 900 m
FOV 140°
3.88 BPS
2025-09-27 19:04:12 UTC+02:00


Stellarium 23.4
Datum und Uhrzeit
Datum und Uhrzeit
Julianischer Tag
2025 - 9 - 27
19 : 4 : 12
Deneb
Vega
Arcturus
Altair
60°
30°
O
W
SO
SW
S
Erde, Gahberg, 900 m
FOV 140°
8.56 BPS
2025-09-27 19:04:12 UTC+02:00

Vorführung Stellarium


Stellarium 23.4
Meridian
+09°
Deneb
+06°
Vega
Arcturus
60°
O
W
SO
SW
S
Datum und Uhrzeit
Datum und Uhrzeit
Julianischer Tag
2025 - 9 - 27
19 : 4 : 12
Erde, Gahberg, 900 m
FOV 140°
9.67 BPS
2025-09-27 19:04:12 UTC+02:00
NSNS DR0.2: RGB continuum


Stellarium 23.4
Datum und Uhrzeit
Datum und Uhrzeit
Julianischer Tag
2025 – 9 – 27
19 : 4 : 12
Konfiguration
Allgemein
Information
Extras
Zeit
Werkzeuge
Skripte
Erweiterungen
Zusätzliche Einstellungen für Information.
Verwende Maßeinheit mag/arcsec² für Flächenhelligkeit
Kurznotation für Einheit zum Messen der Oberflächenhelligkeit benutzen
Verwende Tabellenformat für Koordinaten und Zeitangaben
Verwende symbolische Bezeichnungen für Koordinatensysteme
Zeige zusätzliche Schaltflächen
Sternbildgrenzen
Asterismen-Linien
Asterismen-Bezeichnungen
Ekliptikales Gradnetz
ICRS-Gradnetz
Galaktisches Gradnetz
Himmelsrichtungen
Kompass-Markierungen
Nachtmodus
Zentrier-Schaltfläche
Vollbild-Schaltfläche
Beenden-Schaltfläche
Schaltfläche für Deep-Sky-Bilder
Spiegelungsschaltflächen
DSS-Gesamtaufnahme
HiPS-Gesamtaufnahmen
Beobachtungslisten
Hintergrund für Schalter
Sternkatalog-Aktualisierungen
Alle verfügbaren Sternkataloge wurden installiert.
Arcturus
Deneb
Einstellungsfenster [F2]
Erde, Gahberg, 900 m
FOV 140°
9.17 BPS
2025-09-27 19:04:12 UTC+02:00
DEU
08:53
27.04.2026


Stellarium 23.4
Datum und Uhrzeit
Datum und Uhrzeit
Julianischer Tag
2025 – 9 – 27
19 : 4 : 12
Ansicht
Himmel
SSO
DSO
Markierungen
Landschaft
Himmelskultur
Gesamtaufnahme
Deep Sky
NSNS DR0.1: H-alpha
NSNS DR0.1: H-alpha (8 bit)
NSNS DR0.1: H-alpha and continuum
NSNS DR0.1: True-color
NSNS DR0.1: Visual continuum
NSNS DR0.2: [OIII]
NSNS DR0.2: [OIII] (8 bit)
NSNS DR0.2: [OIII], H-alpha and [SII]
NSNS DR0.2: [SII]
NSNS DR0.2: [SII] (8 bit)
NSNS DR0.2: Estimated variance of [OIII]
NSNS DR0.2: Estimated variance of [SII]
NSNS DR0.2: Estimated variance of H-alpha
NSNS DR0.2: Estimated variance of visual continuum
NSNS DR0.2: H-alpha
NSNS DR0.2: H-alpha (8 bit)
NSNS DR0.2: H-alpha and continuum
NSNS DR0.2: RGB continuum
NSNS DR0.2: RGB continuum
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Red, green and blue continuum with partially subtracted stars as compressed 8-bit color HIPS for easy visualization. See http://www.simg.de/nebulae3/dr0_2 for other data sets.
Eigenschaften
client_application AladinDesktop
client_category Image/Optical
client_sort_key 04743
creator_did ivo://simg.de/P/NSNS/DR0_2/rgb8
dataproduct_subtype color
dataproduct_type image
em_max 7.0e-7
em_min 4.4e-7
hips_builder Aladin/HipsGen v12.119
hips_creation_date 2025-06-07T16:19Z
hips_creator S. Ziegenbalg
hips_frame equatorial
hips_initial_dec 60.0
hips_initial_fov 150.0
hips_initial_ra 60.0
hips_order 5
hips_order_min 0
hips_overlay overlayMean mergeOverwriteTile treeMedian
hips_pixel_scale 0.003579
hips_release_date 2025-06-07T16:19Z
Himmel- und Anzeigeoptionsfenster [F4]
Erde, Gahberg, 900 m
FOV 140°
8.06 BPS
2025-09-27 19:04:12 UTC+02:00
NSNS DR0.2: RGB continuum
DEU
08:54
27.04.2026

DST 2026
Bebra
20.-22.11.2026