Corrección de gradientes con herramientas de última generación

Vicent Peris
Alicia Lozano







Imágenes de Edoardo Luca Radice



Original



Corregida con DBE



Corregida con DBE



Corregida con DBE



Corregida con DBE



Corregida con MGC

Modelización de gradientes extrínseca



Original

Modelización de gradientes extrínseca



Corrección con DBE

Modelización de gradientes extrínseca



Imagen de gran campo corregida con DBE

Modelización de gradientes extrínseca



Original

Modelización de gradientes extrínseca



Corrección con DBE

Modelización de gradientes extrínseca



Corrección con MGC



MARS Survey Telescope ©2024 Pleiades Astrophoto

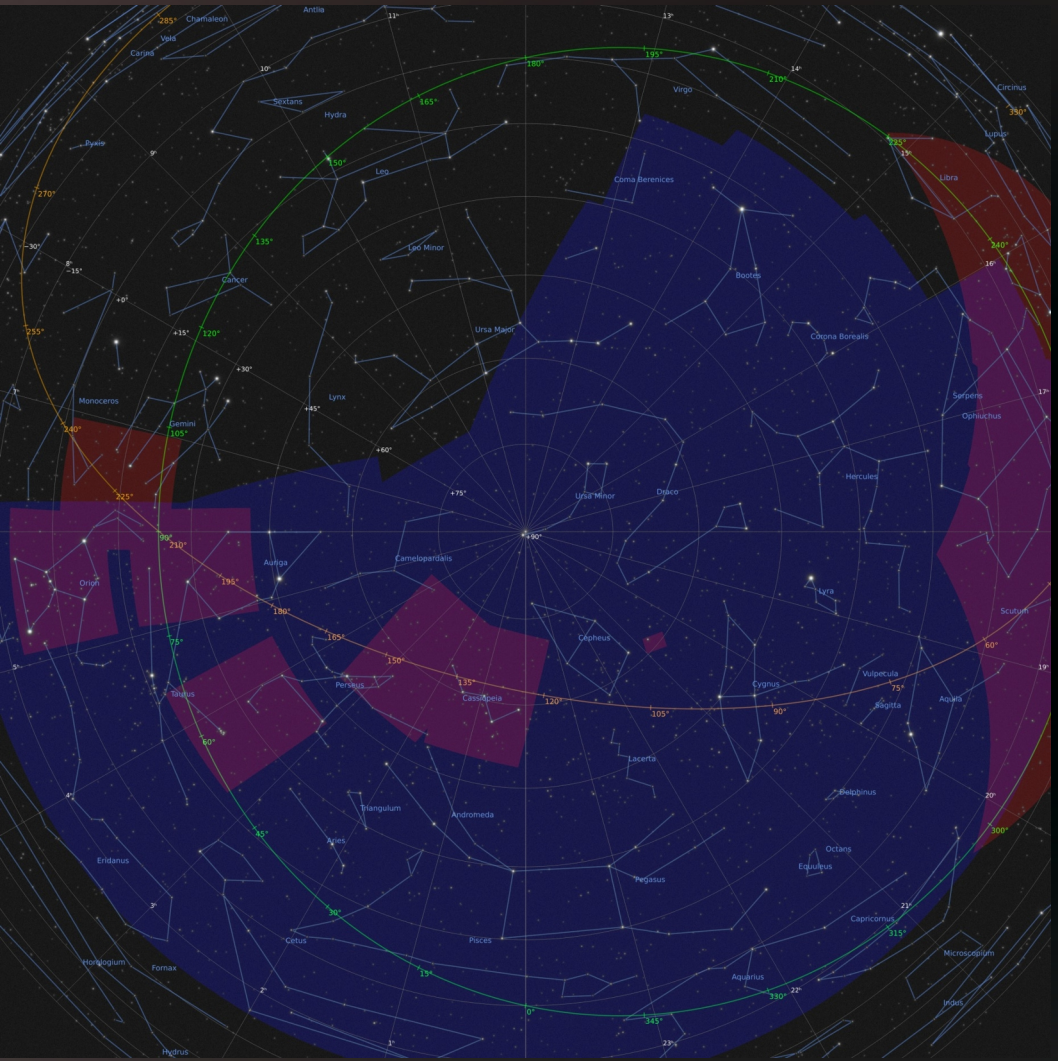


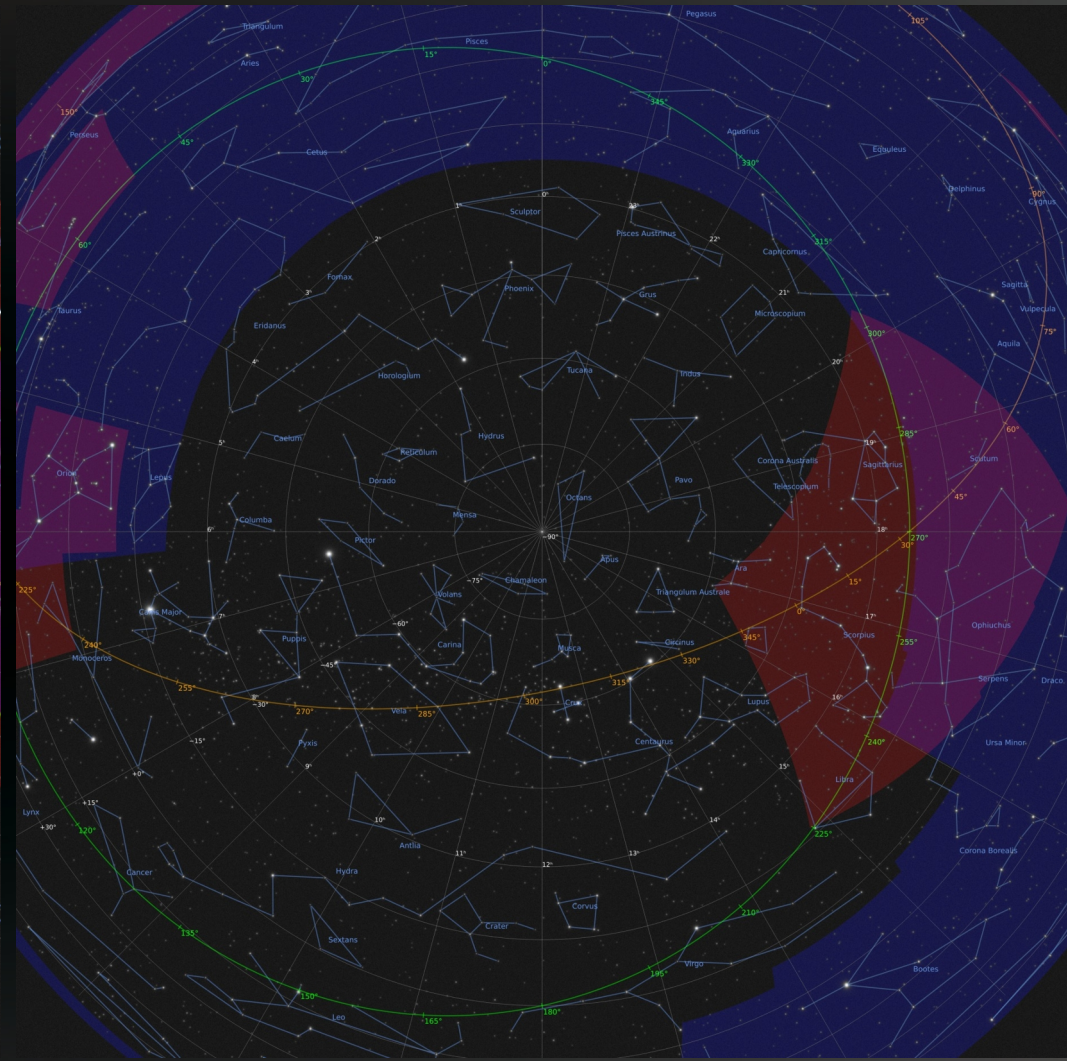


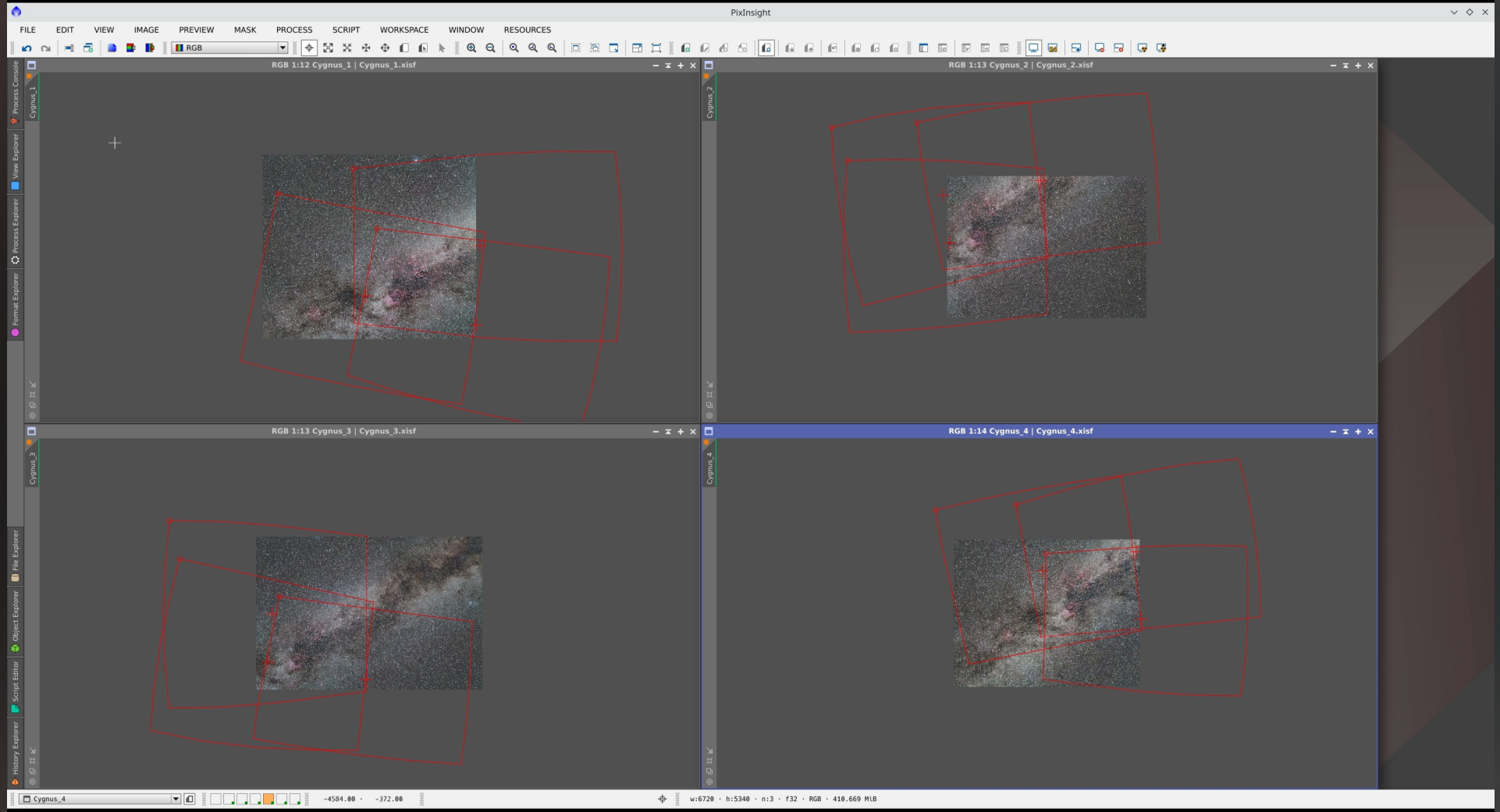


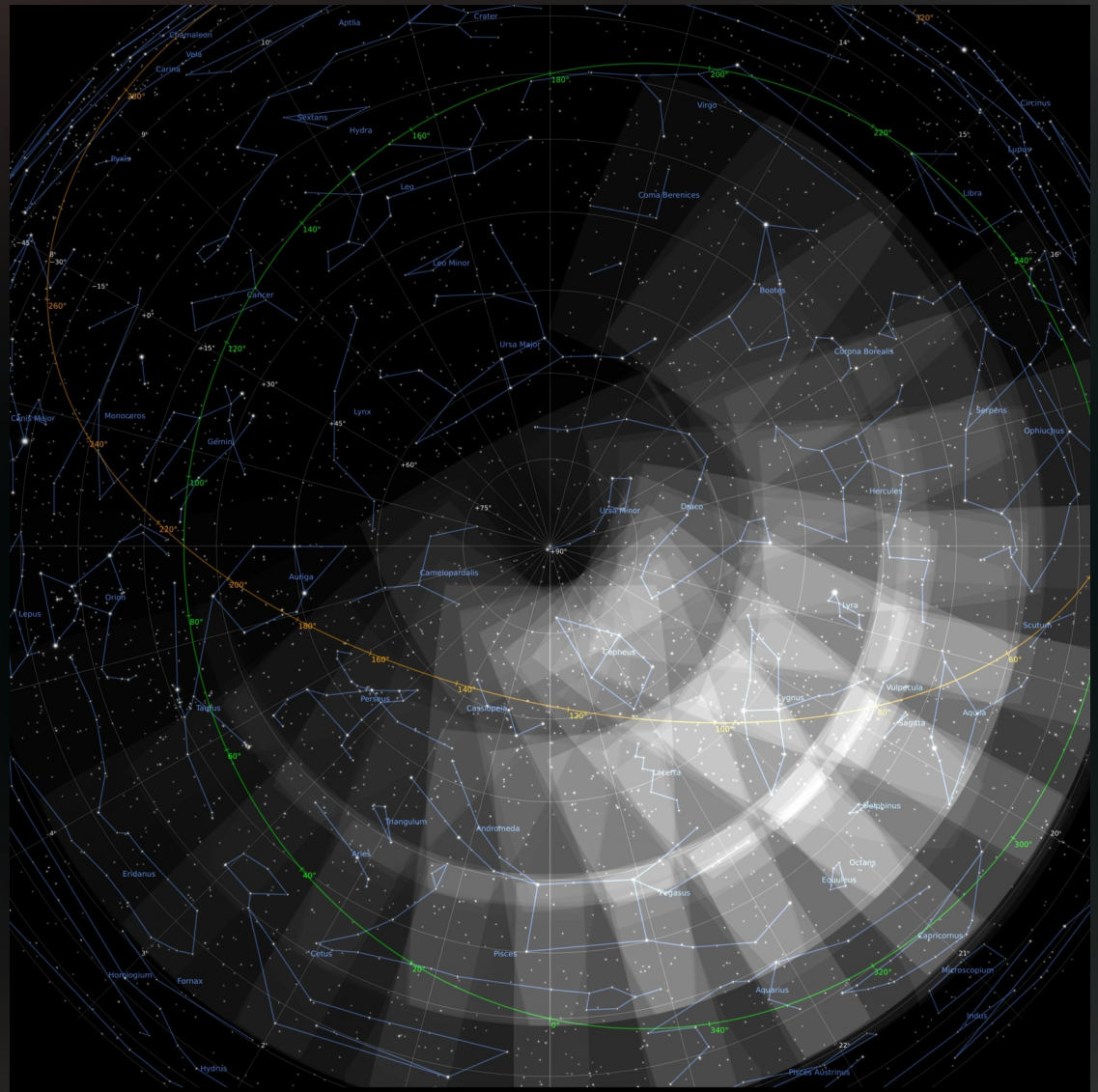


Astro Camp


Chamaleon
Antlia
Vela
Carina
Sextans
Hydra
Virgo
Circinus
Lupus
Pyxis
Leo
Coma Berenices
Libra
Leo Minor
Cancer
Bootes
Ursa Major
Corona Borealis
Lynx
Serpens
Ophiuchus
Monoceros
Gemini
Hercules
Ursa Minor
Draco
Camelopardalis
Auriga
Orion
Lyra
Scutum
Cepheus
Taurus
Perseus
Cygnus
Vulpecula
Cassiopeia
Sagitta
Aquila
Lacerta
Delphinus
Triangulum
Andromeda
Aries
Eridanus
Octans
Equuleus
Pegasus
Capricornus
Cetus
Pisces
Microscopium
Horologium
Fornax
Aquarius
Indus
Hydrus

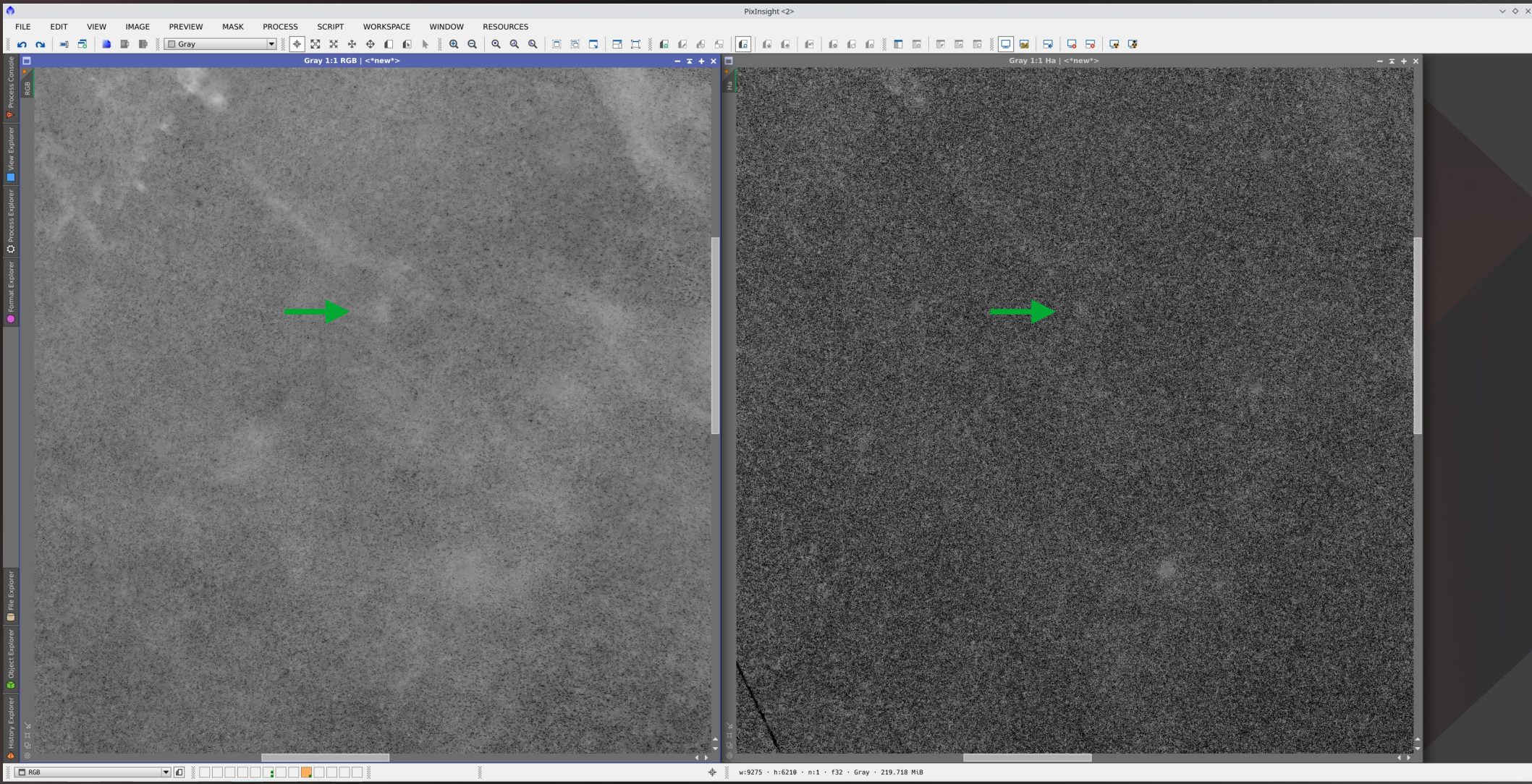

Triangulum
Pegasus
Pisces
Aries
Perseus
Cetus
Aquarius
Equuleus
Delphinus
Sculptor
Pisces Austrinus
Capricornus
Sagitta
Vulpecula
Fornax
Phoenix
Grus
Microscopium
Taurus
Eridanus
Aquila
Horologium
Tucana
Indus
Caelum
Hydrus
Scutum
Reticulum
Corona Australis
Sagittarius
Orion
Lepus
Dorado
Telescopium
Octans
Pavo
Columba
Mensa
Pictor
Apus
Ara
Chamaleon
Triangulum Australe
Canis Major
Puppis
Carina
Circinus
Scorpius
Ophiuchus
Monoceros
Vela
Crux
Lupus
Pyxis
Centaurus
Serpens
Draco
Ursa Minor
Libra
Lynx
Antlia
Corona Borealis
Cancer
Hydra
Corvus
Crater
Sextans
Virgo
Leo
Bootes

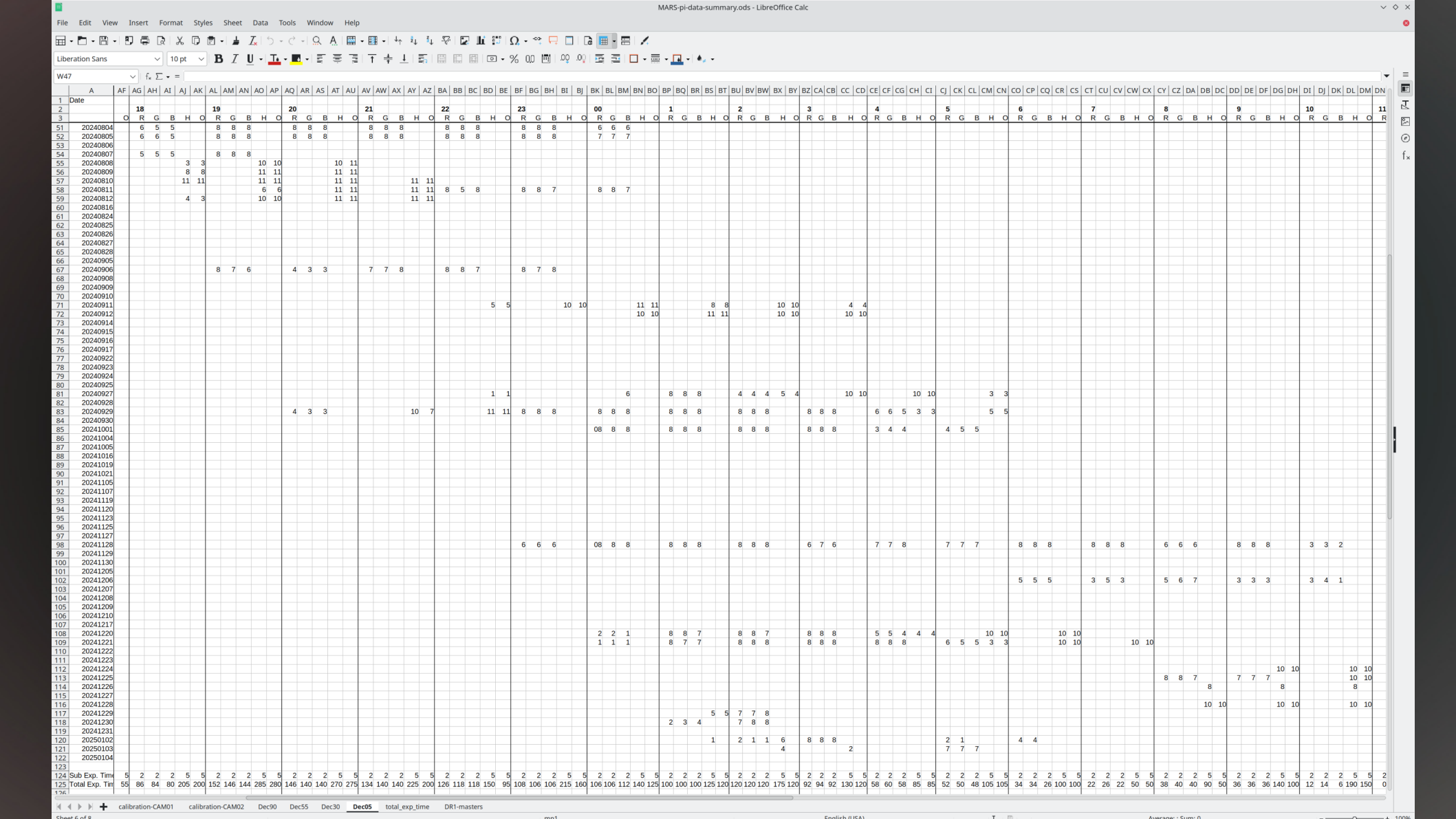

PixInsight
FILE EDIT VIEW IMAGE PREVIEW MASK PROCESS SCRIPT WORKSPACE WINDOW RESOURCES
RGB
RGB 1:12 Cygnus_1 | Cygnus_1.xisf
RGB 1:13 Cygnus_2 | Cygnus_2.xisf
RGB 1:13 Cygnus_3 | Cygnus_3.xisf
RGB 1:14 Cygnus_4 | Cygnus_4.xisf
Process Console
View Explorer
Process Explorer
Format Explorer
File Explorer
Object Explorer
Script Editor
History Explorer
Cygnus_1
Cygnus_2
Cygnus_3
Cygnus_4
Cygnus_4
-4584.00 · -372.00
w:6720 · h:5340 · n:3 · f32 · RGB · 410.669 MiB

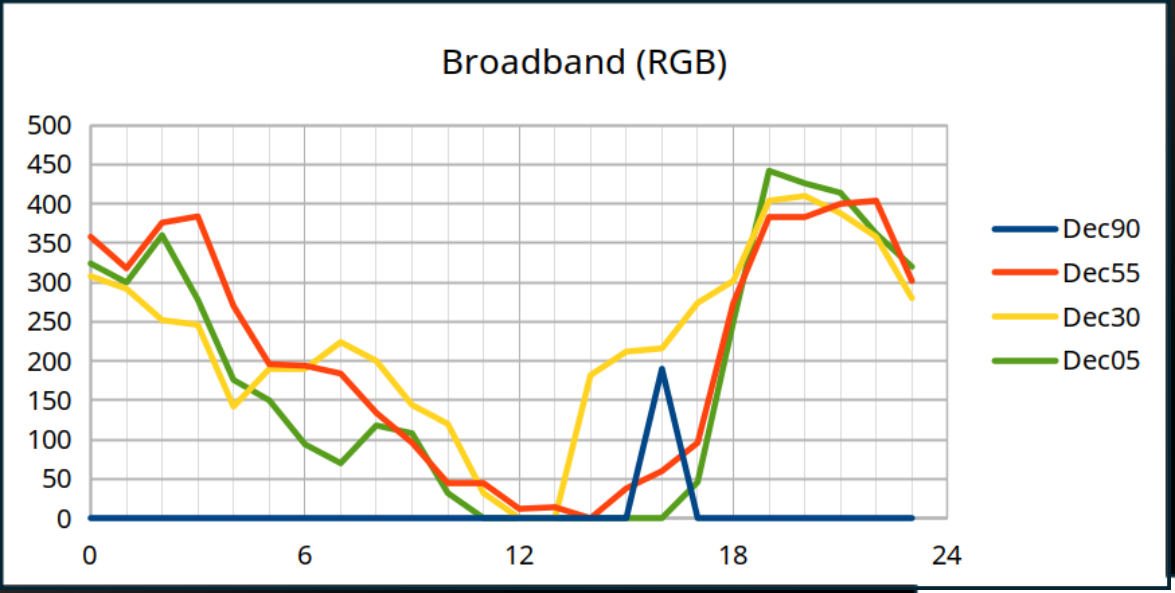


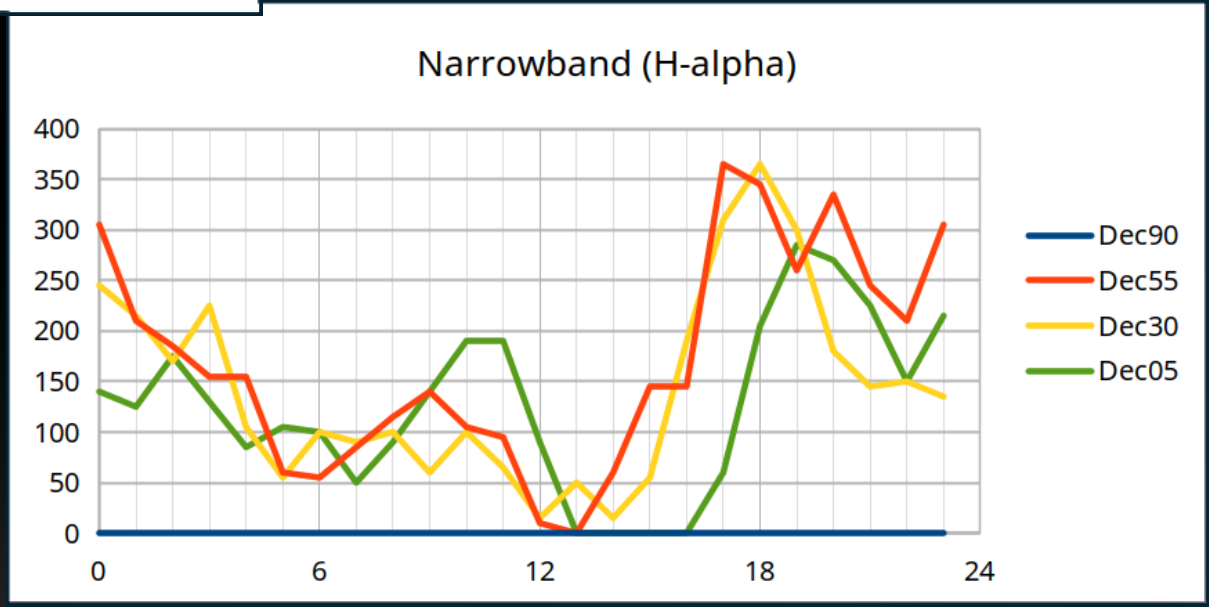
MARS DR1 broadband coverage map. Northern hemisphere. Grey level indicates exposure time, white being 50 hours.




PixInsight <2>
FILE
EDIT
VIEW
IMAGE
PREVIEW
MASK
PROCESS
SCRIPT
WORKSPACE
WINDOW
RESOURCES
Gray
Gray 1:1 RGB | <*new*>
Gray 1:1 Ha | <*new*>
Process Console
View Explorer
Process Explorer
Format Explorer
File Explorer
Object Explorer
History Explorer
RGB
RGB
w:9275 · h:6210 · n:1 · f32 · Gray · 219.718 MiB

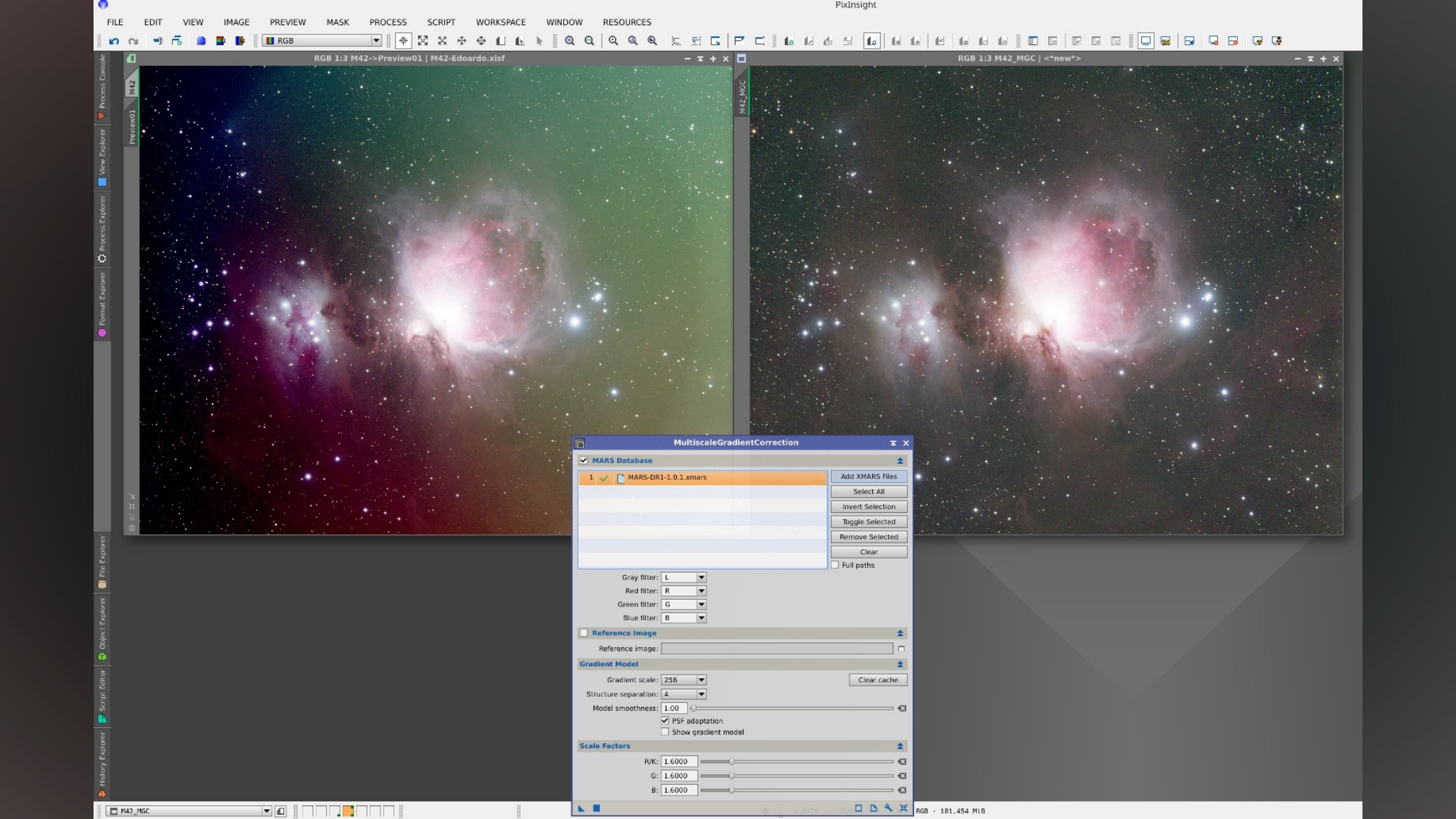

MARS-pi-data-summary.ods - LibreOffice Calc
File Edit View Insert Format Styles Sheet Data Tools Window Help
Liberation Sans
10 pt
W47
Date
Sub Exp. Time
Total Exp. Time
calibration-CAM01
calibration-CAM02
Dec90
Dec55
Dec30
Dec05
total_exp_time
DR1-masters


Broadband (RGB)
500
450
400
350
300
250
200
150
100
50
0
0
6
12
18
24
Dec90
Dec55
Dec30
Dec05


Narrowband (H-alpha)
400
350
300
250
200
150
100
50
0
0
6
12
18
24
Dec90
Dec55
Dec30
Dec05



- CPU de 96 núcleos
- 768 GB de RAM
- 64 TB disco SSD


PixInsight
FILE EDIT VIEW IMAGE PREVIEW MASK PROCESS SCRIPT WORKSPACE WINDOW RESOURCES
RGB
RGB 1:3 M42->Preview01 | M42-Edoardo.xisf
RGB 1:3 M42_MGC | <*new*>
MultiscaleGradientCorrection
MARS Database
1
MARS-DR1-1.0.1.xmars
Add XMARS Files
Select All
Invert Selection
Toggle Selected
Remove Selected
Clear
Full paths
Gray filter: L
Red filter: R
Green filter: G
Blue filter: B
Reference Image
Reference image:
Gradient Model
Gradient scale: 256
Clear cache
Structure separation: 4
Model smoothness: 1.00
PSF adaptation
Show gradient model
Scale Factors
R/K: 1.6000
G: 1.6000
B: 1.6000
Process Console
View Explorer
Process Explorer
Format Explorer
File Explorer
Object Explorer
Script Editor
History Explorer
M42_MGC
RGB · 181.454 MiB









¡Muchas gracias!

