

New Ctrl+N  
 New from Template  
 Open... Ctrl+O  
 Open From  
 Open Recent  
 Close  
 Save Ctrl+S  
 Save As... Ctrl+Shift+S  
 Save To  
 Revert...  
**Properties... Ctrl+Shift+P**  
 Snapping Options...  
 Import/Export  
 New Print Layout... Ctrl+P  
 New Report...  
 Layout Manager...  
 Layouts  
 Models  
 Exit QGIS Ctrl+Q

## Recent Project

## Project Properties — CRS

- General
- Metadata
- View Settings
- CRS
- Transformations
- Styles
- Data Sources
- Relations
- Variables
- Macros
- QGIS Server
- Temporal
- Terrain

### Project Coordinate Reference System (CRS)

☐ No CRS (or unknown/non-Earth projection)

Filter WGS 84

#### Recently Used Coordinate Reference Systems

Coordinate Reference System	Authority ID
WGS 84	EPSG:4326
WGS 84 / UTM zone 22S	EPSG:32722

#### Predefined Coordinate Reference Systems

☐ Hide deprecated CRSs

Coordinate Reference System	Authority ID
WGS 84 / UTM zone 20N	EPSG:32620
WGS 84 / UTM zone 20S	EPSG:32720
WGS 84 / UTM zone 21N	EPSG:32621
WGS 84 / UTM zone 21S	EPSG:32721
WGS 84 / UTM zone 22N	EPSG:32622
<b>WGS 84 / UTM zone 22S</b>	<b>EPSG:32722</b>
WGS 84 / UTM zone 23N	EPSG:32623
WGS 84 / UTM zone 23S	EPSG:32723

#### WGS 84 / UTM zone 22S

##### Properties

- Units: meters
- Dynamic (relies on a datum which is not plate-fixed)
- Celestial body: Earth
- Based on *World Geodetic System 1984 ensemble* (EPSG:6326), which has a limited accuracy of **at best 2 meters**.
- Method: Universal Transverse Mercator



OK

Cancel

Apply

Help

## Processing Toolbox

Search...

- Recently used
- Cartography
- Database
- File tools
- GPS
- Interpolation
- Layer tools
- Mesh
- Network analysis
- Plots
- Raster analysis
- Raster creation
- Raster terrain analysis
- Raster tools
- Vector analysis
- Vector creation
- Vector general
- Vector geometry
- Vector overlay
- Vector selection
- Vector table
- Vector tiles
- GDAL
- GRASS
- SAGA

Type to locate (Ctrl+K)

Coordinate

Scale

:37317864

Magnifier

100%

Rotation

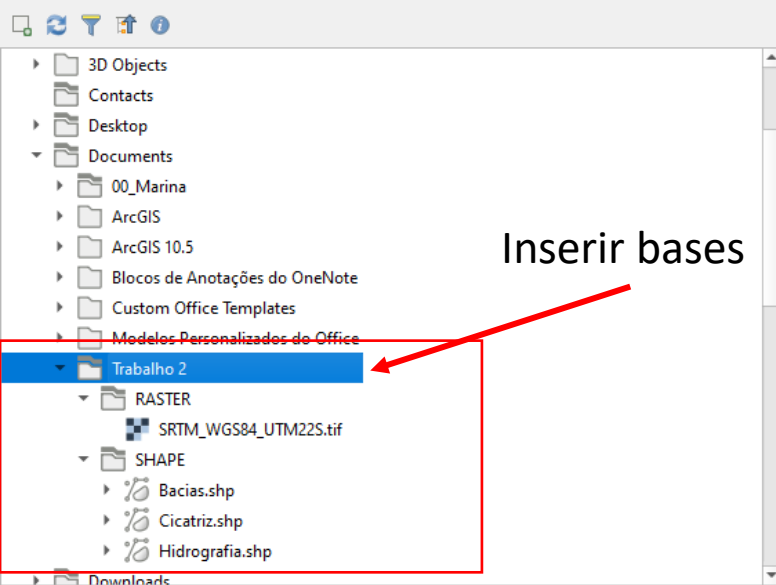
0,0 °

Render

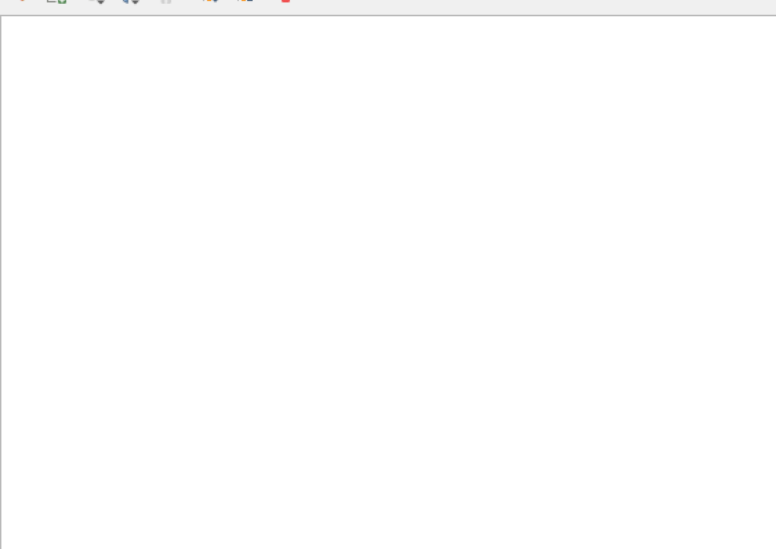
EPSG:4326



Browser

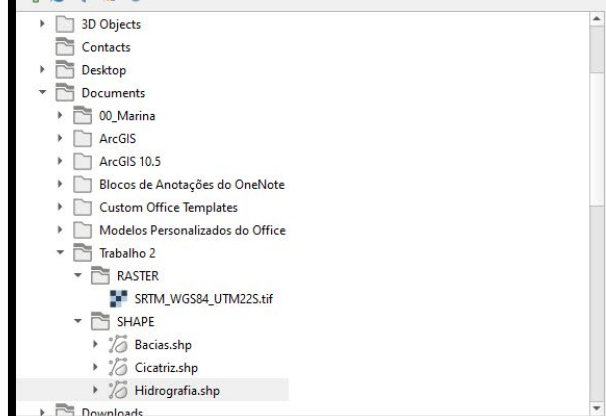
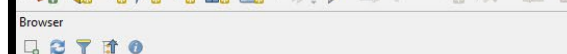


Layers



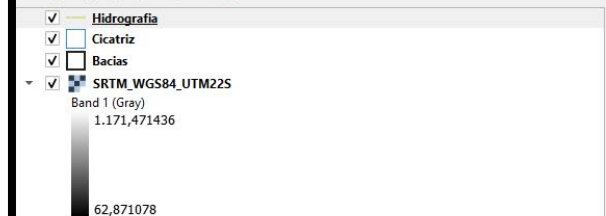
Recent

\*Untitled Project — QGIS

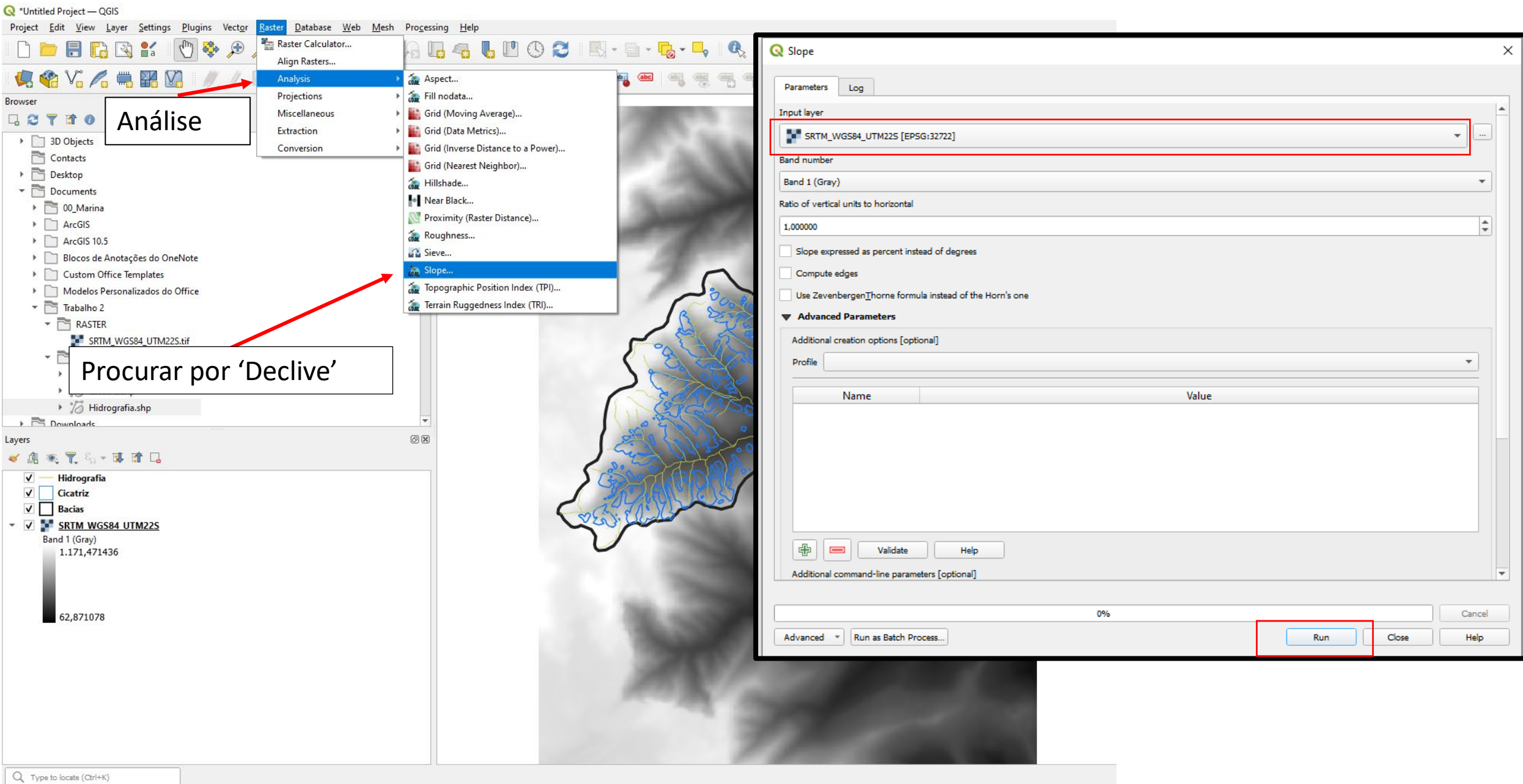


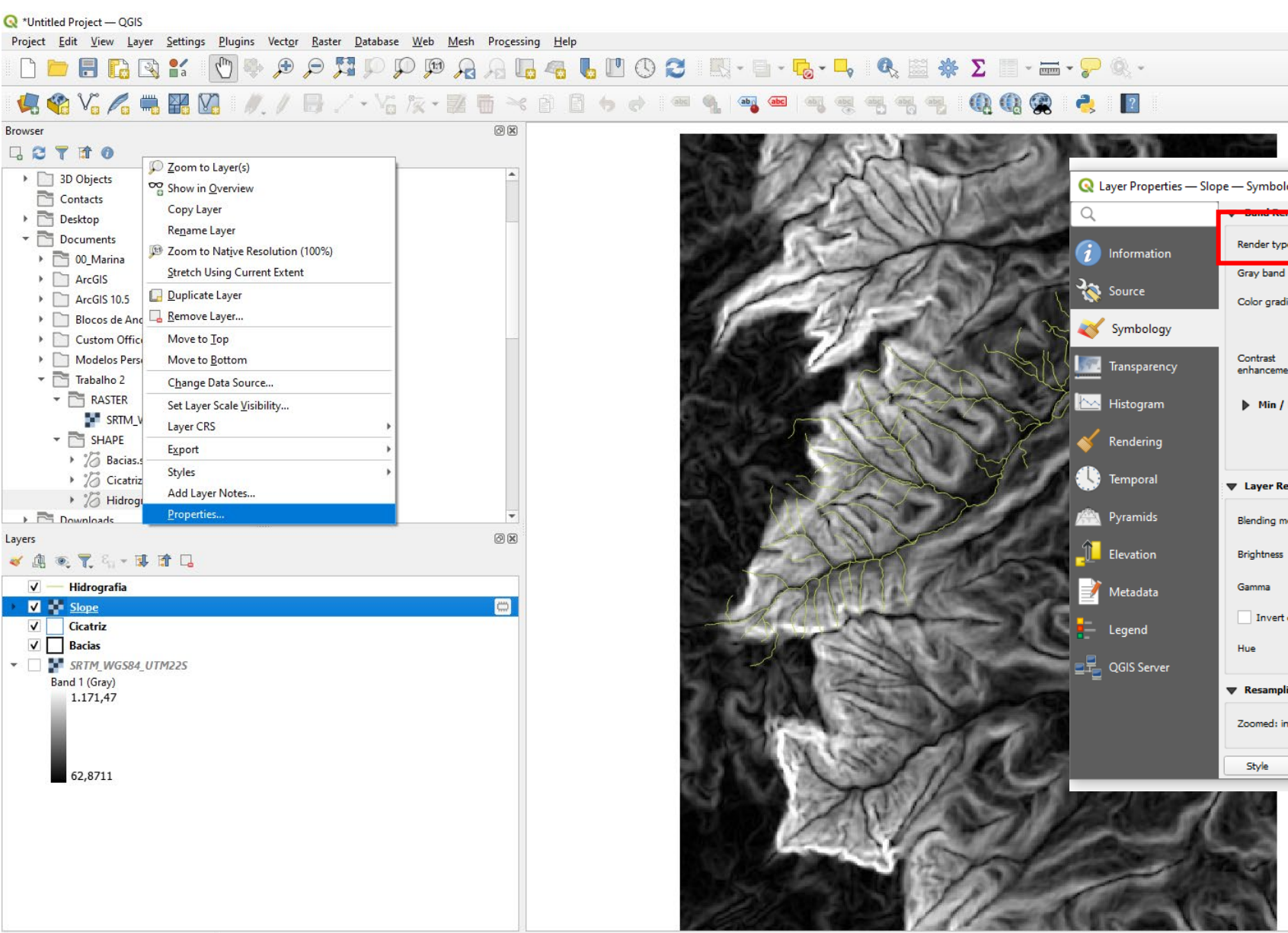
Downloads

Layers

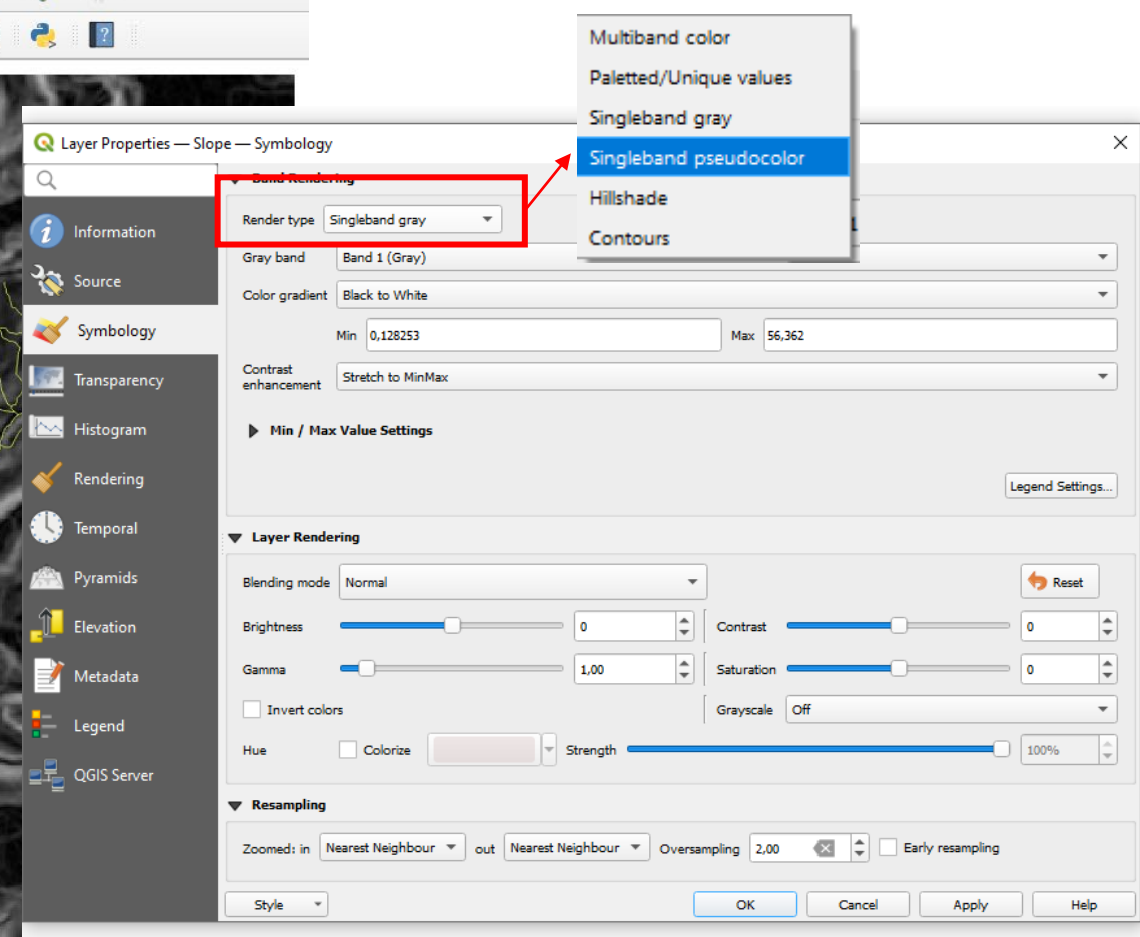


Type to locate (Ctrl+K)





Clicar em “falsa cor”









- Discrete
- Linear
- Exact

- Continuous
- Equal Interval
- Quantile

Classes   

[Legend Settings...](#)

Layer Properties — Slope — Symbology

Information  
Source  
Symbology  
Transparency  
Histogram  
Rendering  
Temporal  
Pyramids  
Elevation  
Metadata  
Legend  
QGIS Server

### Band Rendering

Render type: Singleband pseudocolor

Band: Band 1 (Gray)

Min: 0,128253 Max: 56,3620148

Min / Max Value Settings

Interpolation: Discrete

Color ramp: [Color ramp bar]

Label unit suffix: [Empty field]

Label precision: 4

Value <=	Color	Label
6	[Red]	<= 8,1616
16,1950421	[Orange]	8,1616 - 16,1950
24,2284366	[Yellow]	16,1950 - 24,2284
32,2618312	[Light Green]	24,2284 - 32,2618
40,2952257	[Green]	32,2618 - 40,2952

Mode: Equal Interval

Classes: 7

Buttons: Classify, [Add], [Remove], [Reset], [Folder], [Legend]

☐ Clip out of range values

Legend Settings...

### Layer Rendering

Blending mode: Normal

Brightness: [Slider] 0

Gamma: [Slider] 1,00

Contrast: [Slider] 0

Saturation: [Slider] 0

☐ Invert colors

Grayscale: Off

Hue: ☐ Colorize [Color] Strength: [Slider] 100%

Buttons: OK, Cancel, Apply, Help

Alterar os valores conforme as classes pré-estabelecidas (as cores não importam):



Value <=	Color	Label
6	[Red]	<= 6,0000
12	[Orange]	6,0000 - 12,0000
18	[Yellow]	12,0000 - 18,0000
24	[Light Green]	18,0000 - 24,0000
30	[Green]	24,0000 - 30,0000



Browser

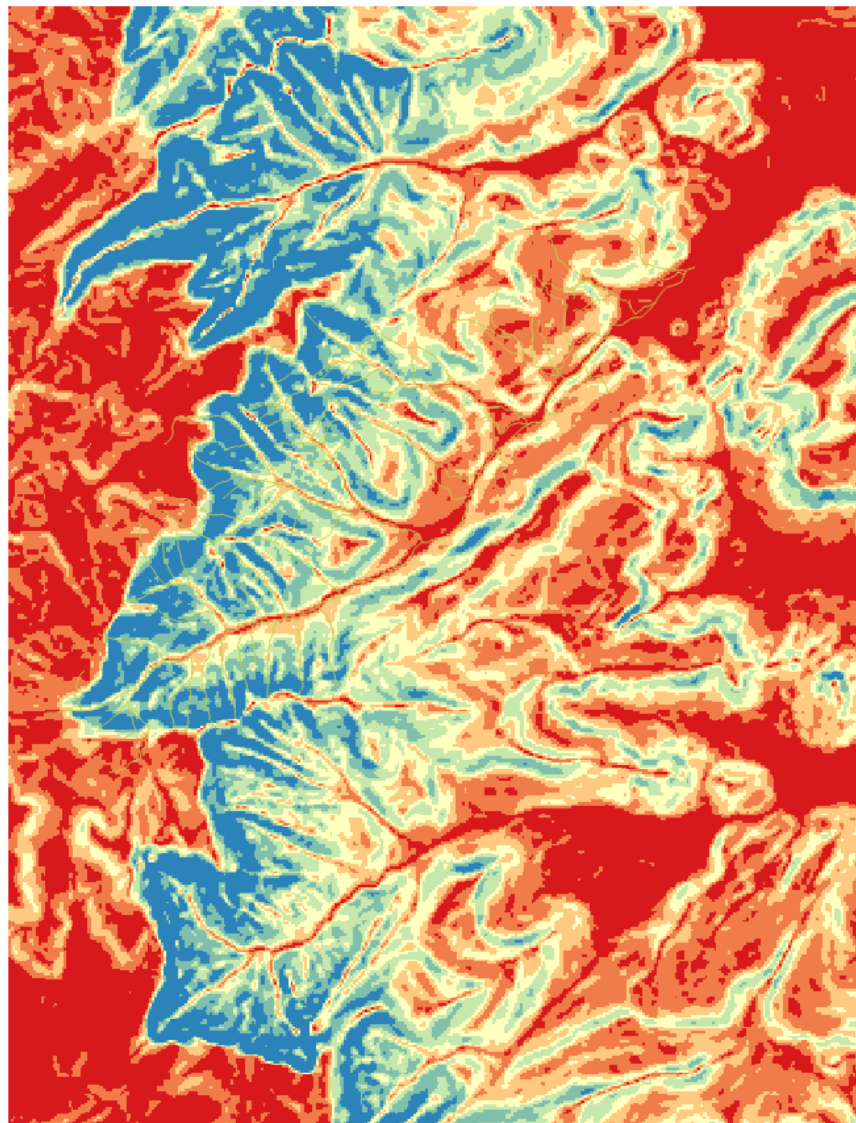


- 3D Objects
- Contacts
- Desktop
- Documents
  - 00\_Marina
  - ArcGIS
  - ArcGIS 10.5
  - Blocos de Anotações do OneNote
  - Custom Office Templates
  - Modelos Personalizados do Office
  - Trabalho 2
    - RASTER
      - SRTM\_WGS84\_UTM22S.tif
    - SHAPE
      - Bacias.shp
      - Cicatriz.shp
      - Hidrografia.shp
  - Downloads

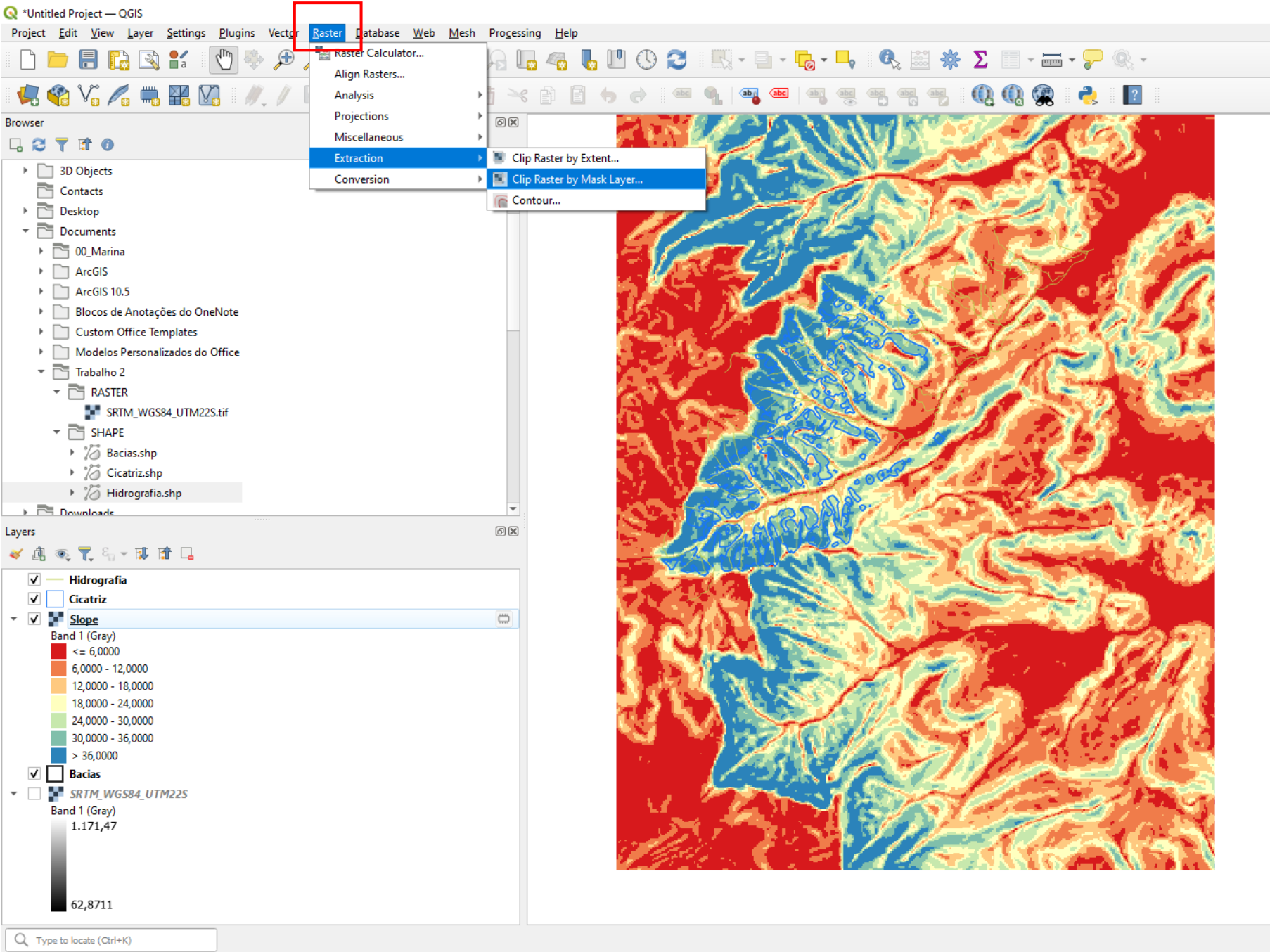
Layers



- ☒ Hidrografia
- ☒ Slope
  - Band 1 (Gray)
    - <= 6,0000
    - 6,0000 - 12,0000
    - 12,0000 - 18,0000
    - 18,0000 - 24,0000
    - 24,0000 - 30,0000
    - 30,0000 - 36,0000
    - > 36,0000
- ☒ Cicatriz
- ☒ Bacias
- ☐ SRTM\_WGS84\_UTM22S
  - Band 1 (Gray)
    - 1.171,47
    - 62,8711




Recortar a declividade para a área da cicatriz






Parameters Log

Input layer

 Slope [EPSG:32722]

Mask layer

 Cicatriz [EPSG:32722]☐ Selected features only

Source CRS [optional]

Target CRS [optional]

Target extent [optional]

Not set

Assign a specified nodata value to output bands [optional]

Not set

☐ Create an output alpha band☒ Match the extent of the clipped raster to the extent of the mask layer☐ Keep resolution of input raster☐ Set output file resolution

X Resolution to output bands [optional]

Not set

Y Resolution to output bands [optional]

Not set

0%

Cancel

Advanced ▾

Run as Batch Process...

Run

Close

Help

Inserir a camada de  
declividade

Inserir a camada de cicatriz

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

Browser

3D Objects

Contacts

Desktop

Do

Zoom to Layer(s)

Show in Overview

Copy Layer

Rename Layer

Zoom to Native Resolution (100%)

Stretch Using Current Extent

Duplicate Layer

Remove Layer...

Move to Top

Move to Bottom

Change Data Source...

Set Layer Scale Visibility...

Layer CRS

Export

Styles

Add Layer Notes...

Properties...

Copy Style

Add...

Rename Current...

default

Layers

Hidrografia

Clipped (mask)

Cicatriz

Slope

Band 1 (Gray)

<= 6,0000

6,0000 - 12,0000

12,0000 - 18,0000

18,0000 - 24,0000

24,0000 - 30,0000

30,0000 - 36,0000

> 36,0000

Bacias

SRTM\_WGS84\_UTM22S

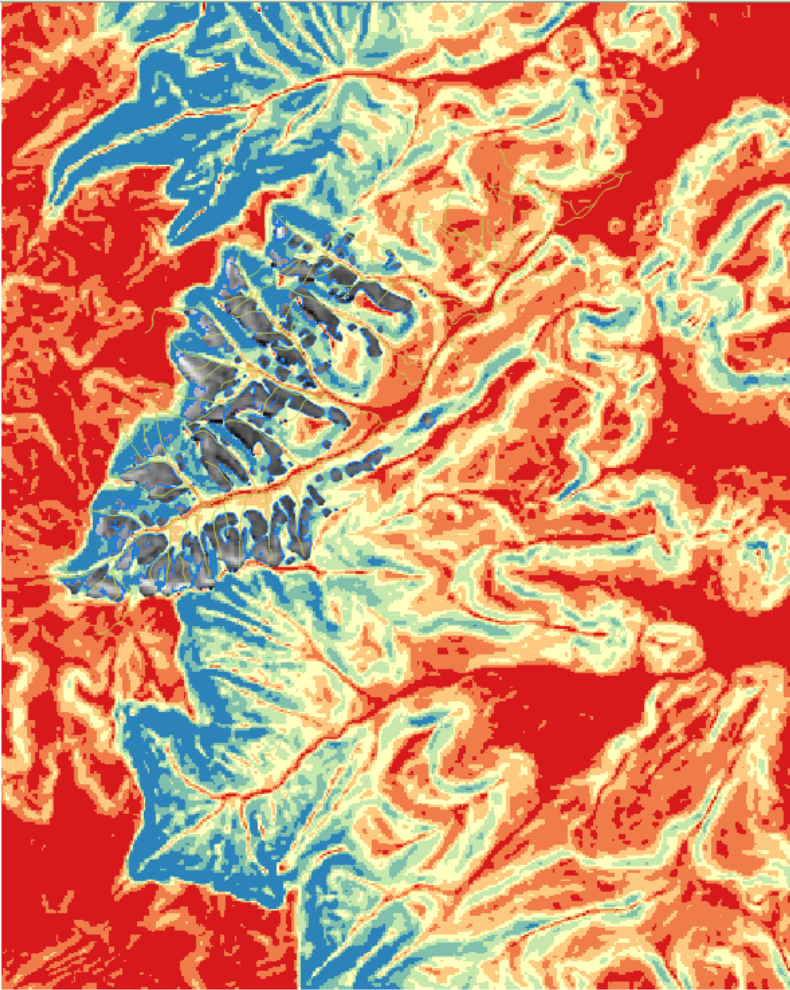
Band 1 (Gray)

1.171,47

62.8711

Type to locate (Ctrl+K)

Layer Exported: Successfully saved vector layer to C:\Users\user\Documents\00\_Marina\02\_Projetos\USP\_MESTRADO\06\_Monitoria\_Geomorfo\T2\Bases\Cicatriz.shp



QGIS "Untitled Project" — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

Layer Exported: Successfully saved vector layer to C:\Users\user\Documents\00\_Marina\02\_Projetos\USP\_MESTRADO\06\_Monitoria\_Geomorfo\1\T2\Bases\Cicatriz.shp

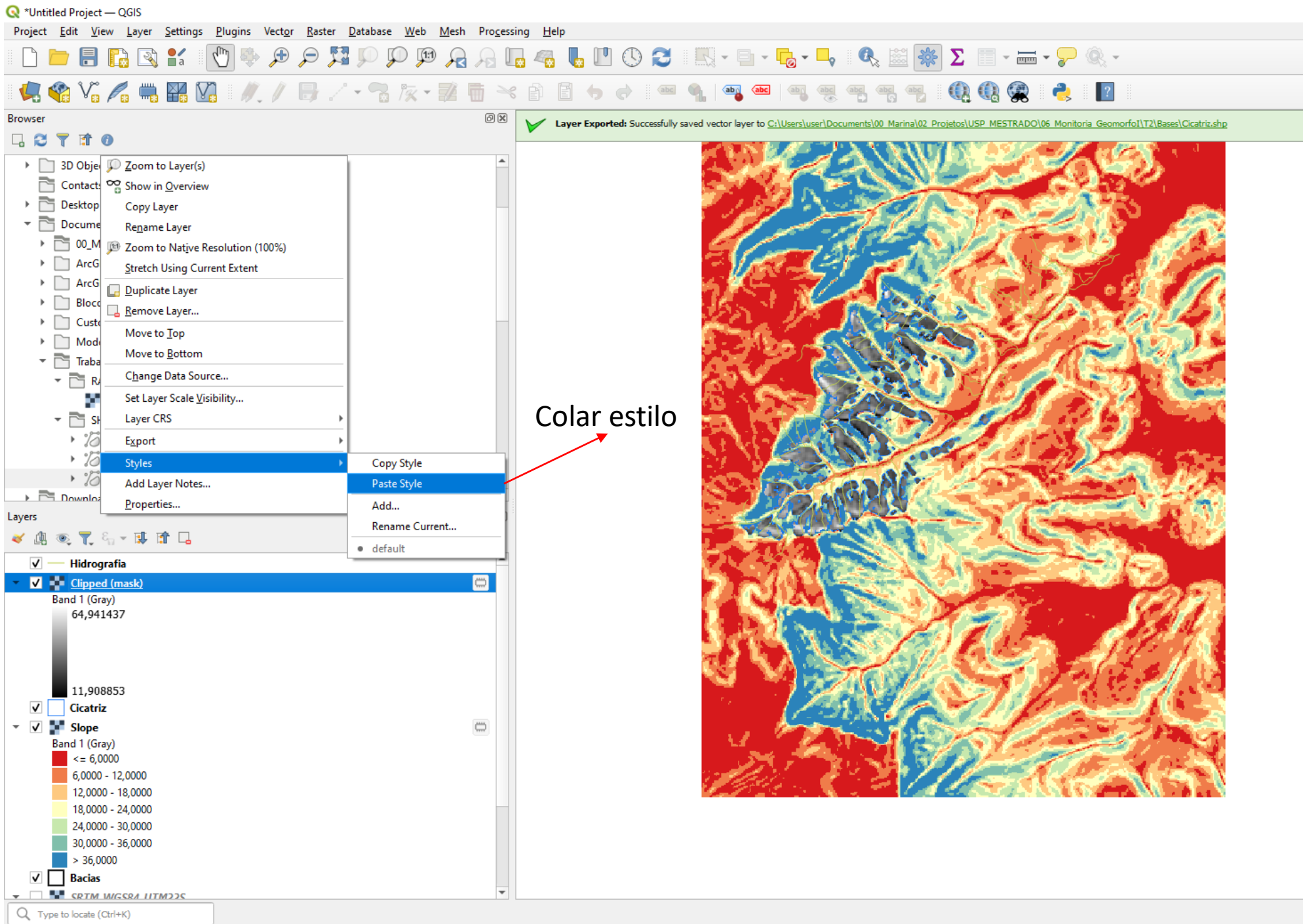
Browser

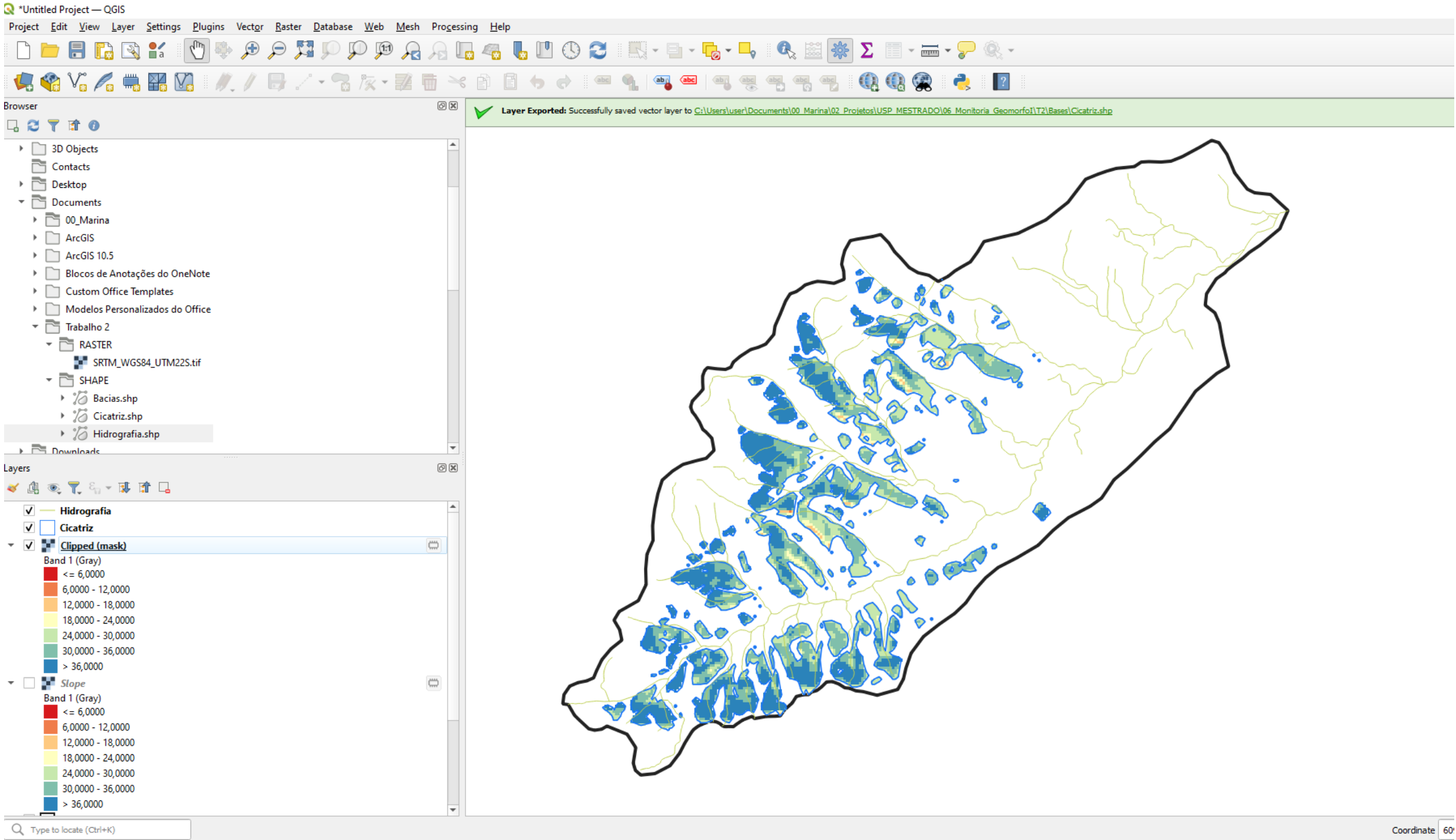
- 3D Object
- Contact
- Desktop
- Document
- 00\_M
- ArcG
- ArcG
- Bloc
- Cust
- Mod
- Traba
- R
- St
- Download

Layers

- ☒ Hidrografia
- ☒ Clipped (mask)
  - Band 1 (Gray)
  - 64,941437
  - 11,908853
- ☒ Cicatriz
  - Band 1 (Gray)
  - <= 6,0000
  - 6,0000 - 12,0000
  - 12,0000 - 18,0000
  - 18,0000 - 24,0000
  - 24,0000 - 30,0000
  - 30,0000 - 36,0000
  - > 36,0000
- ☒ Bacias
  - SRTM\_WGS84\_UTM22S

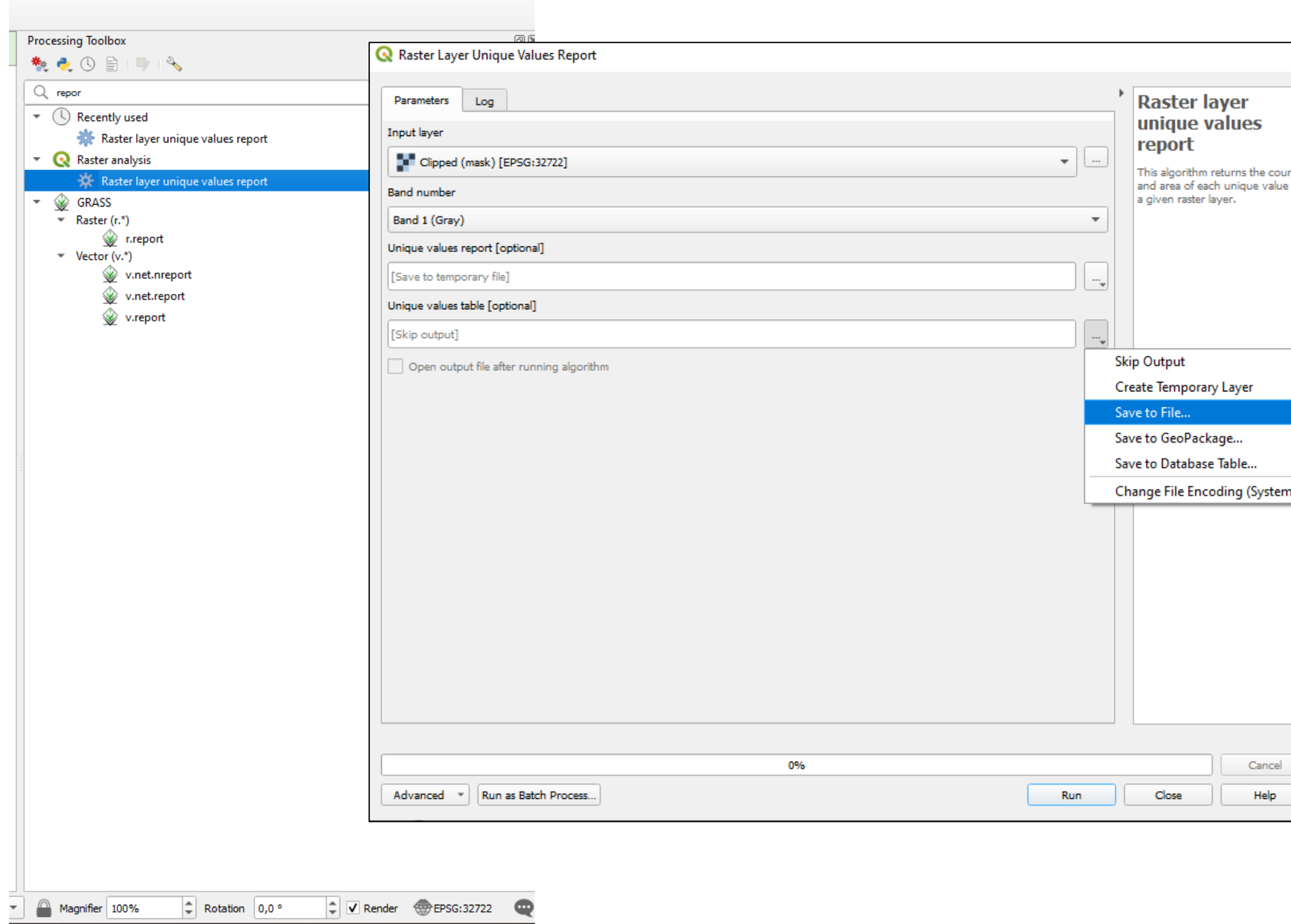
Colar estilo





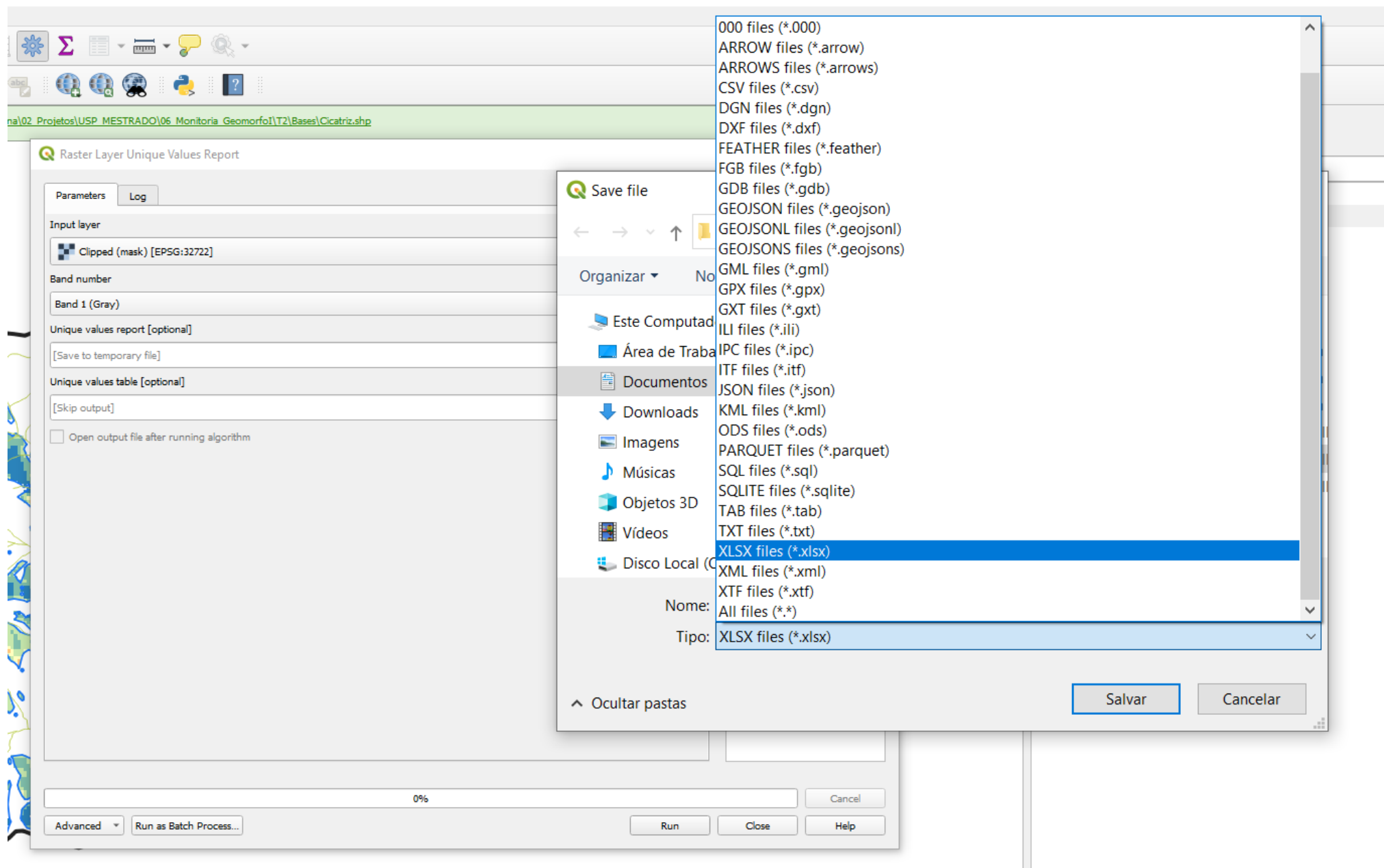
Abrir caixa de  
ferramenta e digitar  
“Reporta”

Selecionar “Reporta  
camada raster de  
valor único”





Nomear arquivo  
Escolher formato XLSX



Abrir a planilha de Excel “Trabalho 2” e preencher os dados

**Trabalho 2 - Excel**

Pesquisar

Arquivo **Página Inicial** Inserir Layout da Página Fórmulas Dados Revisão Exibir Ajuda Acrobat

Desfazer Recortar Copiar Pincel de Formatação Área de Transferência Fonte Alinhamento Número

K10 : ✕ ✓ fx

A	B	C	D	E	F	G	H	I	J
1	<b>Trabalho 2 - Geomorfologia I</b>			<b>Ângulo de inclinação das vertentes</b>					
2	<b>Nome:</b>			<b>Classe</b>	<b>Declividade em graus (°)</b>	<b>nº de células</b>	<b>Pa (%)</b>		
3			1	0 - 6	0				
4			2	6 - 12	1				
5			3	12 - 18	42				
6			4	18 - 24	151				
7			5	24 - 30	1480				
8			6	30 - 36	2025				
9			7	> 36	1991				
10			Total						
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

$$Pa = \frac{\text{célular por classe}}{\text{total de células}}$$

