

# Basic Raster Styling and Analysis

## QGIS Tutorials and Tips



Author

Ujaval Gandhi

<http://google.com/+UjavalGandhi>

Translations by

SongHyun Choi

□ □ □ □ □ □ □ □ □ □

□□□ □□□ □□□ □□□ □□□ □□□□□ □□□ □□□. □□□□ □□□ □□□□ □ □□□□□ □□□ □□ □□□□ □□□□. □ □□ □□ □□□□ □□□ □□□ □□□□ □□□ □□ □ □□□□. QGIS '□□□ □□□' □□□□ □□□□ □□ □□□ □□□ □□□□. □ □□□□□ '□□□ □□□' □□□□ □□□□ □□ □□□ □□□ □□□□□□ □□□ □□□ □□□ □□□□.

□ □ □ □

□□ □□□□□ 1990□□ 2000□ □□□ □□□ □□□□□□□□□ □□ □□□ □ □ □□□ □□□□ □□□ □□□□ □□□□ □□ □□□ □□ □□ □□□ □ □□□□.

■ ■ ■ ■

- QGIS□□ □ □□ □□□ □□□□□ □□□□ □□□□□.

□ □ □ □ □ □

□ □□□□□ Columbia University□ [Gridded Population of the World \(GPW\) v3](#) □□□□□ □□□ □□□□. □□, 1990□□ 2000□ □□□ ASCII □□□ □ □□□ □□□□ □□□ □□□□ □□□□□. □□□□ □□ □□□□ □□□ □□ □□□□□□□ □□□□□.

1. Go to the [Population Density Grid, v3 download page](#). Select the Data Attributes as .ascii format, 1° resolution and 1990 year. Click Download. At this point, you may create a free account and login, or use the Guest Download button at the bottom to immediately download the data. Repeat the process for 2000 year data.

[Set Overview](#) [Data Download](#) [Maps](#) [Map Services](#) [Metadata](#)

## Downloads

**Recommended Citation:**

Center for International Earth Science Information Network - CIESIN - Columbia University, and Centro Internacional de Agricultura Tropical - CIAT. 2005. Gridded Population of the World, Version 3 (GPWv3): Population Density Grid. NY: NASA Socioeconomic Data and Applications Center (SEDAC). <http://sedac.ciesin.columbia.edu/data/set/gpw-density>. Accessed DAY MONTH YEAR.

**Download this Citation:**

*Please check the Research Note field for issues pertaining to importing authors that are organizations.*

ENW

 Use this format for EndNote and RefWorks software.

RIS

 Use this format for ProCite, Reference Manager and Zotero software.

**Data:**

Geography: 

Region ▾ » Global ▾

Data Set: 

Population Density Grid ▾

Data Attributes: 

.ascii ▾

1° ▾

1990 ▾

Download

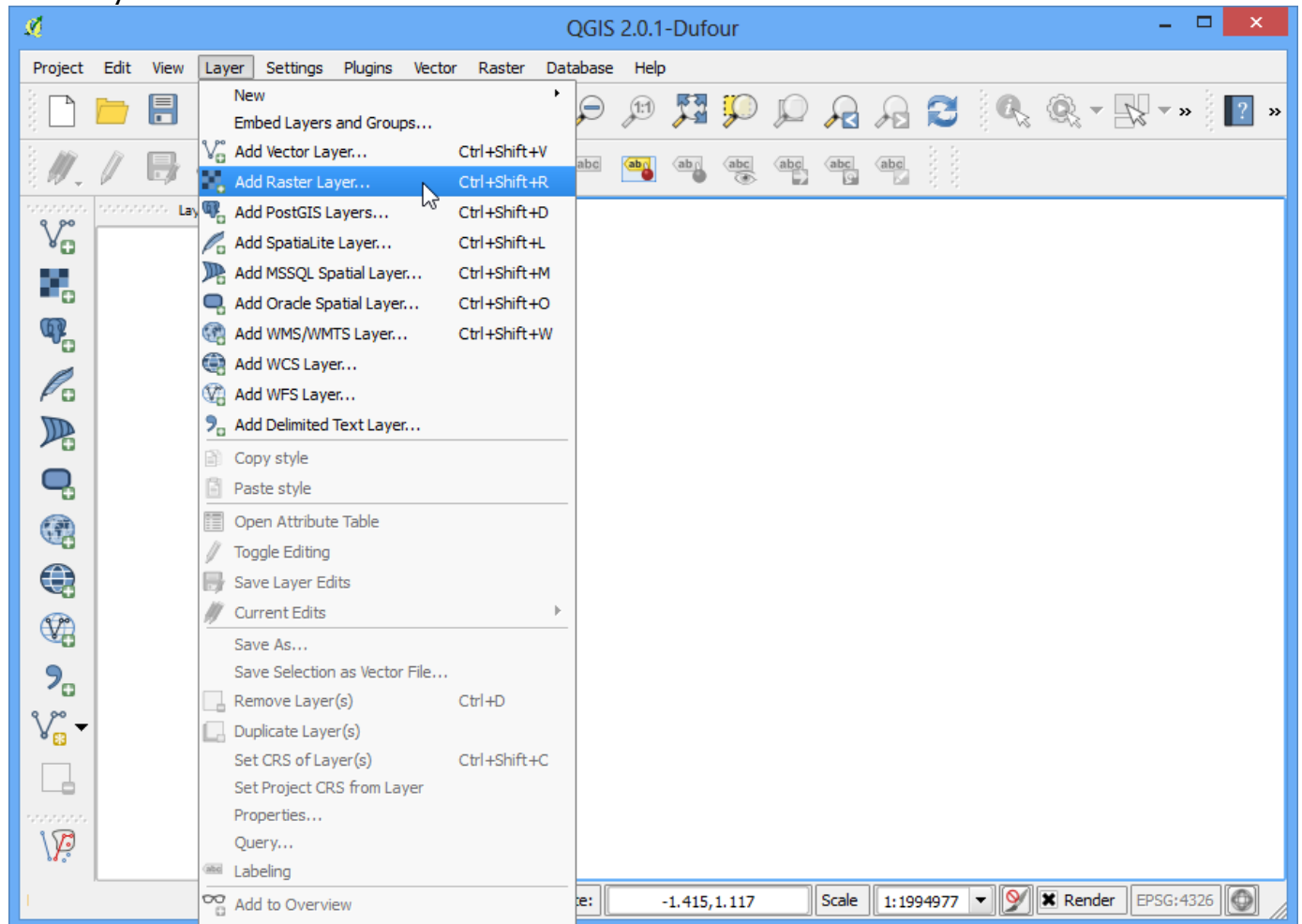
 feedback and support

2. 200 000000 000000 00000.

000 00 [GPW3]

00

2. QGIS 0 00000 00 000 --> 000 000 00 :menuselection: Layer --> Add Raster Layer.. 0 0000.



3. 00000 00000 0000. 0000 :kbd: Ctrl` 0 0000 000 000000 00000. 0 0000  
0 00 000 000 000 0 0000. 000 00 0 00 000 0000 00 00 000 000000.



4. □ □□□□□ 2□□ □□□□□ □□□□□. □□□□ □□ `a` □ □□□□ UN □□□ □□□ □□ □□□□. □ □□□□ □□ □□□□ □□ □□□□. `glds00ag60.asc` □ □□□ □□□□ □□□□. :guilabel: `OK` □ □□□□.



5. □□□□ □□□ CRS □ □ □ □ □□□. □□ □□□ □□/□□□□ □□□□ `EPSG:4326` □ □□□□.



6. 在弹出的对话框中，选择 WGS 84 坐标系。单击 OK 按钮。



7. 在弹出的对话框中，选择 EPSG:4326 坐标系。单击 OK 按钮。



8. QGIS 的 CRS 对话框如下图所示。请根据对话框中的信息，选择正确的 CRS。





10. 00000 000 00 00 000 00 000 000 0000 0 000 0000. 00000 0000 000  
 000 0000 00 :guilabel: `Properties` 0 00000. TOC 0, Table of Contents00  
 00000 000000 000 00 0000000 0 00 0000.

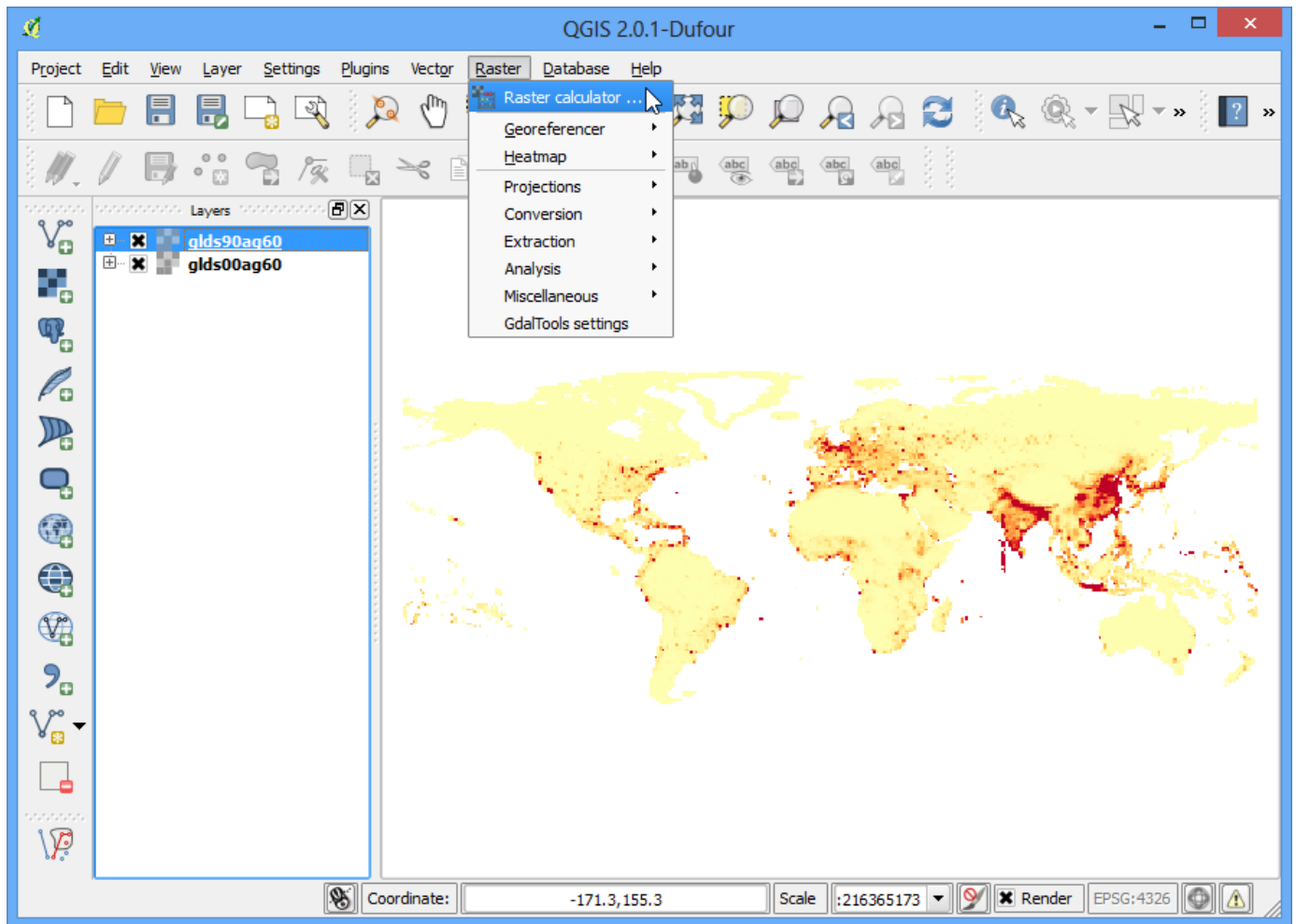






12. QGIS の Style タブで、単バンド擬似カラーで表示する。カラーマップを生成し、累積カウントカットで分類する。範囲を全範囲とし、推定（高速）の精度で表示する。



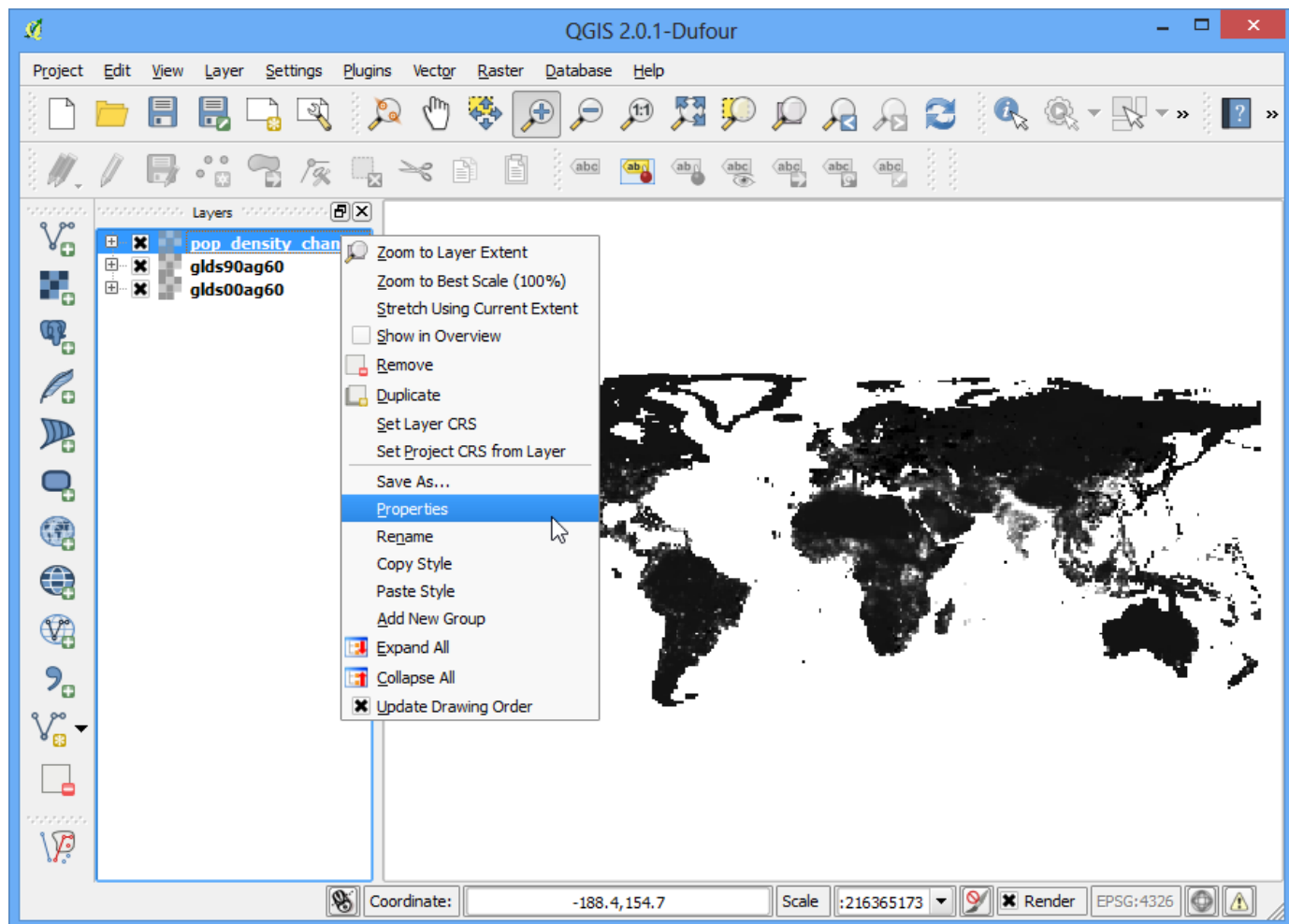


- ```
14. 000 00 Raster bands 00 0000 00000000 0000 000 0 0000. 000 000 00
    00 @0 0000 0000. 000 0000 00 000 000 000000 00000 1 00 00 0 0
    0000. 000 0000 000 000 00 0000 000 0 0 0000. 0000 200000 000000
    199000 00000 00 000 00 00000. 0 glds00ag60@1 - glds90ag60@1 0
    00000. 00 0000 :guilabel:`pop_density_change_2000_1990.tif` 0000 000
    00000 00 :guilabel:`Add result to project`000 00000. :guilabel:`OK`0
    00000.
```





16. `pop_density_change_2000_1990`, `pop_density_change_2000_1990`.  
 :guiLabel: Properties `pop_density_change_2000_1990`.



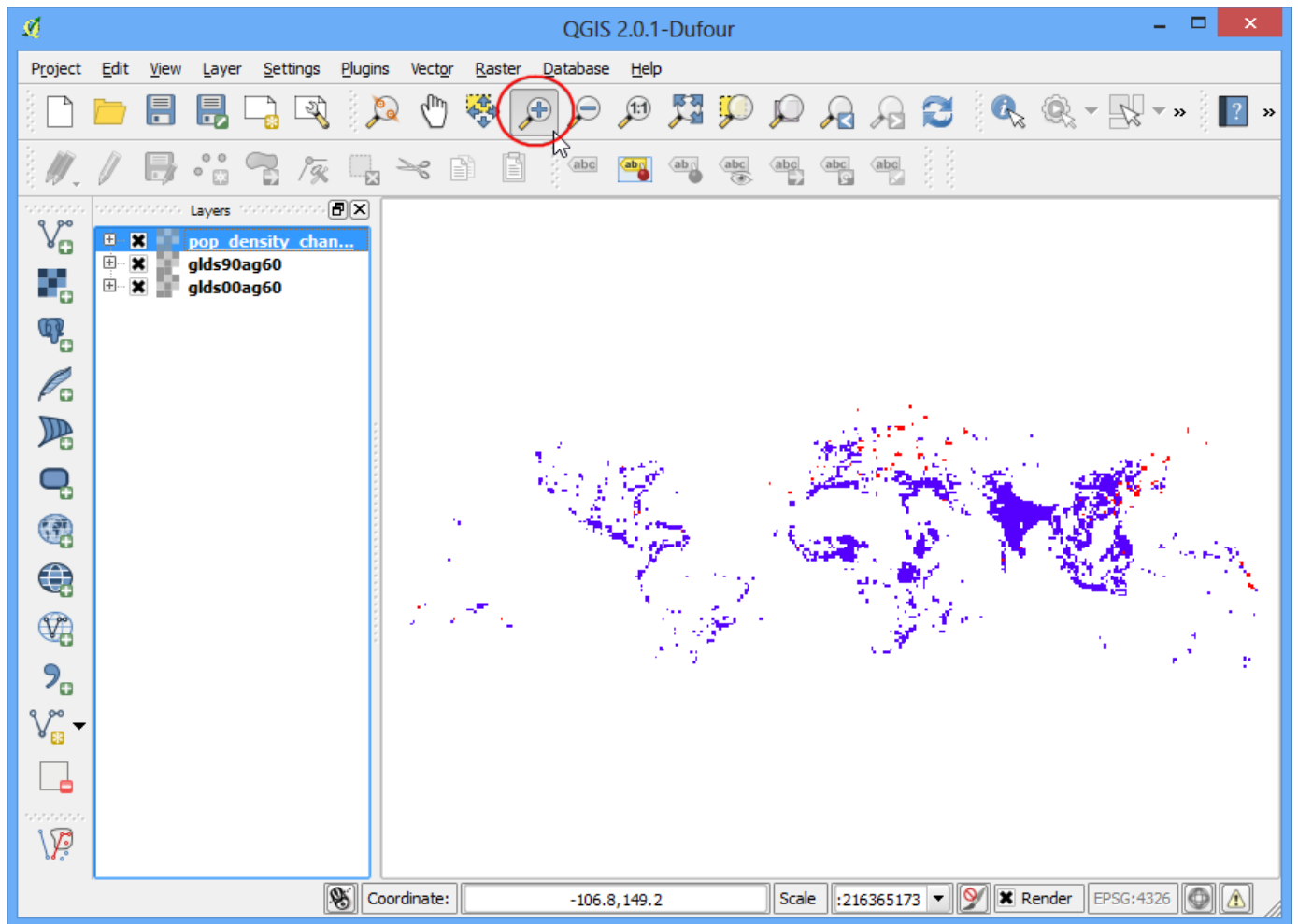
17. 0000 000000 000 00 000 000 0000 0000 00 00 000 00 0000. 0 000 00  
00 00000 :guilabel: `Metadata` 0000 0000. 0000 00000 0000 000000. 0 00000 00  
0 00000 000000.



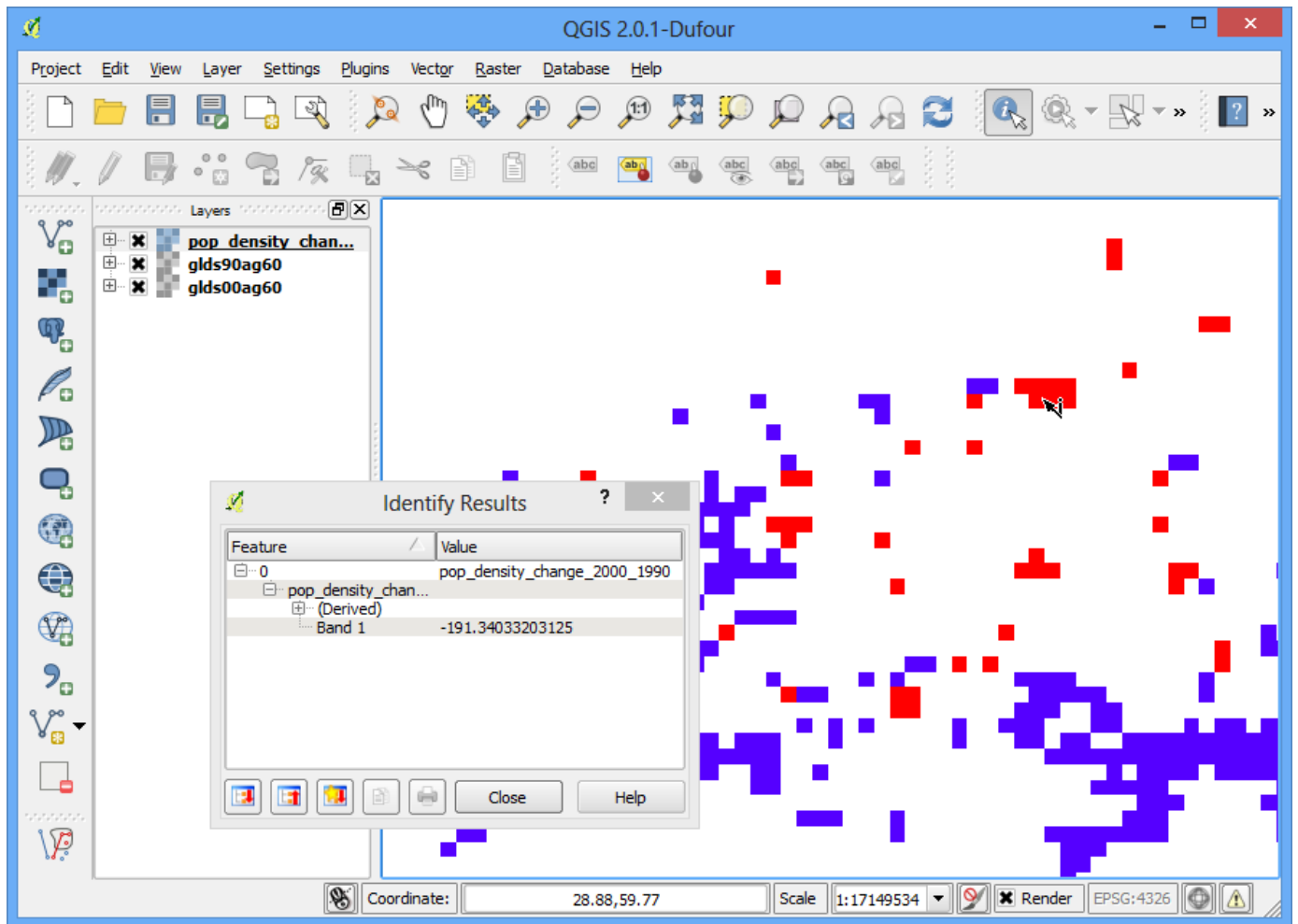
```
18. 00 000 Style 000 000. 00 000 :guilabel: `Band Rendering` 00 00 00
:guilabel: `Render type` 00 0000 0000 :guilabel: `Singleband pseudocolor` 0
00000. 00 00 :guilabel: `Color interpolation` 00 00 :guilabel: `Discrete` 0
00000. 400 00 00000 000 00 00 0000 000 :guilabel: `Add entry` 0 40
00000. 00 0000 00 0 0000 00000. 00000 0 0000 0000 000 00 00 0
0000 000 00000. 00000 0000 -2000 00000 000 0000 -2000 0 00000.
000 No Data 0, 00000 00 000 00000. 00 0000 0000 00 000 000 00
0000 :guilabel: `OK` 0 00000.
```







20. `guiLabel: 'Identify'` 工具图标，用于识别地图上的要素。该工具通常用于查看要素的属性信息。



21. `menuselection: Raster --> Raster calculator`



22. `pop_density_change_2000_1990@1 < -10` `negative_pop_change_2000_1990`  
 Add result to project  
 OK





24. □□ □□□□□ □□□ □□□ □ □ □□□□.

