

Basic Raster Styling and Analysis

QGIS Tutorials and Tips



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QGIS is a free and open source geospatial software package. It provides a graphical user interface to a wide range of geospatial data formats and tools. QGIS is a powerful tool for working with spatial data, and it is used by a wide range of users, from students to professionals. QGIS is a powerful tool for working with spatial data, and it is used by a wide range of users, from students to professionals.



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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](#)

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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.

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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

■■■■ ■■ [GPW3]

11

The screenshot shows the QGIS 2.0.1-Dufour application window. The 'Layer' menu is open, displaying various options for adding and managing layers. The 'Add Raster Layer...' option is highlighted by the mouse cursor. The menu also includes options for adding vector, PostGIS, Spatialite, MSSQL Spatial, Oracle Spatial, WMS/WMTS, WCS, WFS, and delimited text layers, as well as copy/paste style, attribute table, editing, and saving options.

QGIS 2.0.1-Dufour

Project Edit View Layer Settings Plugins Vector Raster Database Help

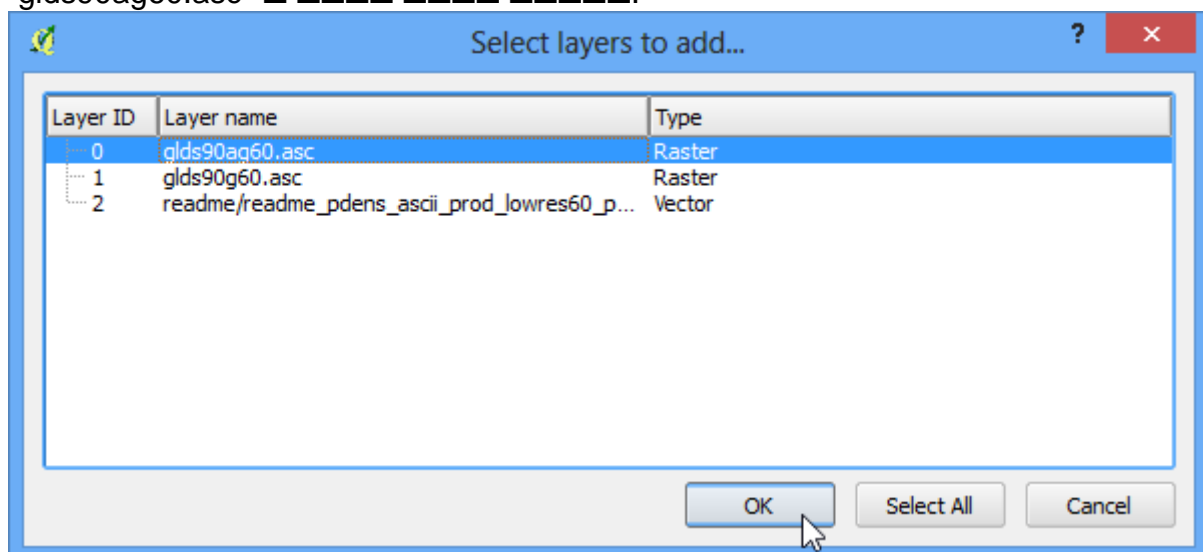
New
Embed Layers and Groups...
Add Vector Layer... Ctrl+Shift+V
Add Raster Layer... Ctrl+Shift+R
Add PostGIS Layers... Ctrl+Shift+D
Add Spatialite Layer... Ctrl+Shift+L
Add MSSQL Spatial Layer... Ctrl+Shift+M
Add Oracle Spatial Layer... Ctrl+Shift+O
Add WMS/WMTS Layer... Ctrl+Shift+W
Add WCS Layer...
Add WFS Layer...
Add Delimited Text Layer...
Copy style
Paste style
Open Attribute Table
Toggle Editing
Save Layer Edits
Current Edits
Save As...
Save Selection as Vector File...
Remove Layer(s) Ctrl+D
Duplicate Layer(s)
Set CRS of Layer(s) Ctrl+Shift+C
Set Project CRS from Layer
Properties...
Query...
Labeling
Add to Overview

Scale 1:1994977 EPSG:4326

3. ■■■■■■ ■■■■■■ ■■■■■■. ■■■■■■ :kbd:`Ctrl` ■■■■■■ ■■■■ ■■■■■■ ■■■■■■. ■ ■■■■■■ ■
■■■■■■ ■■■■ ■■■■ ■■■■■■. ■■■■ ■■ ■■ ■■■■ ■■■■■■ ■■ ■■■■ ■■■■■■.



6. `glds90ag60.asc`



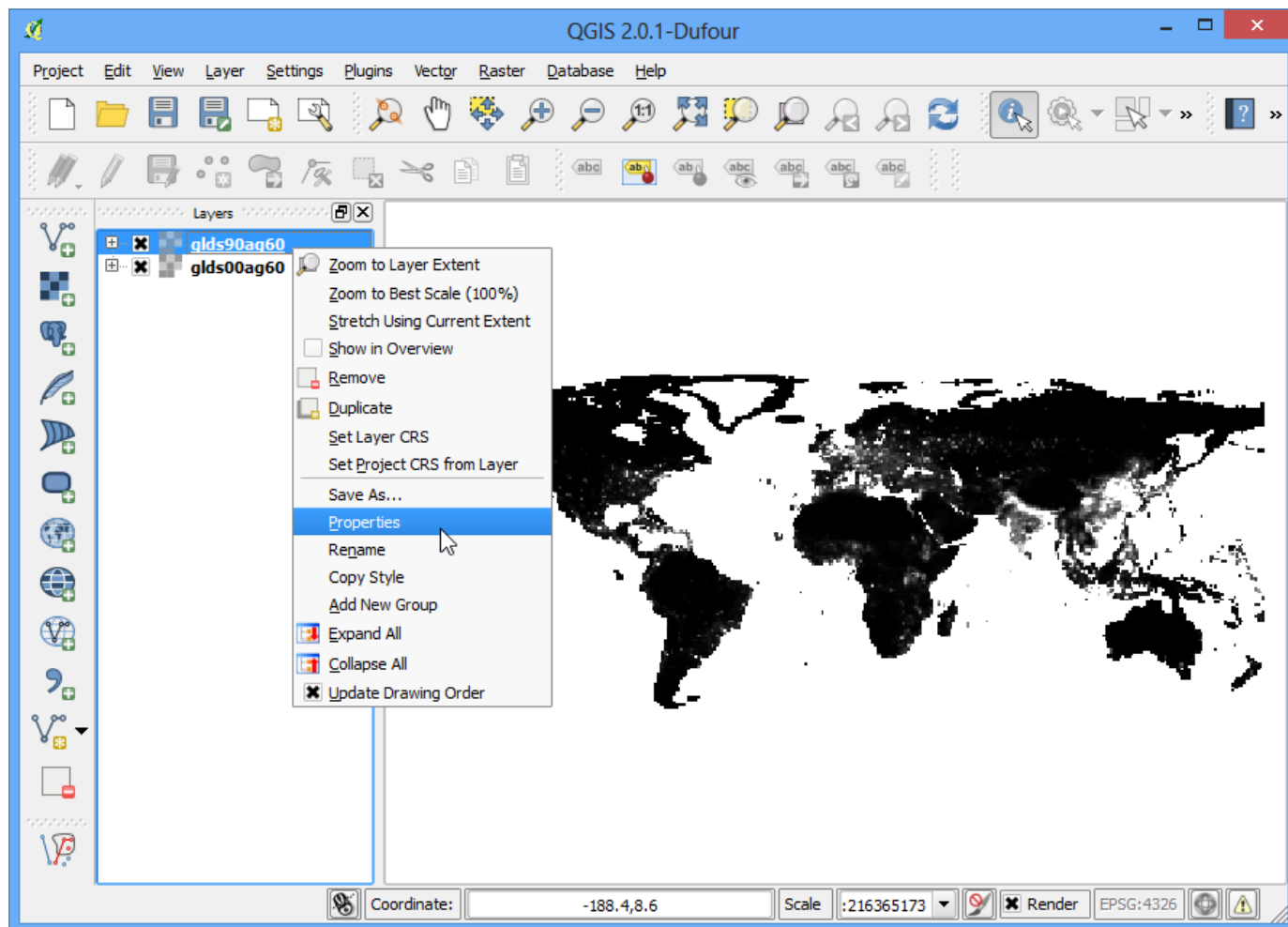
7. CRS `EPSG:4326`



8. ■■■ QGIS ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■. ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■. ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■, ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■.



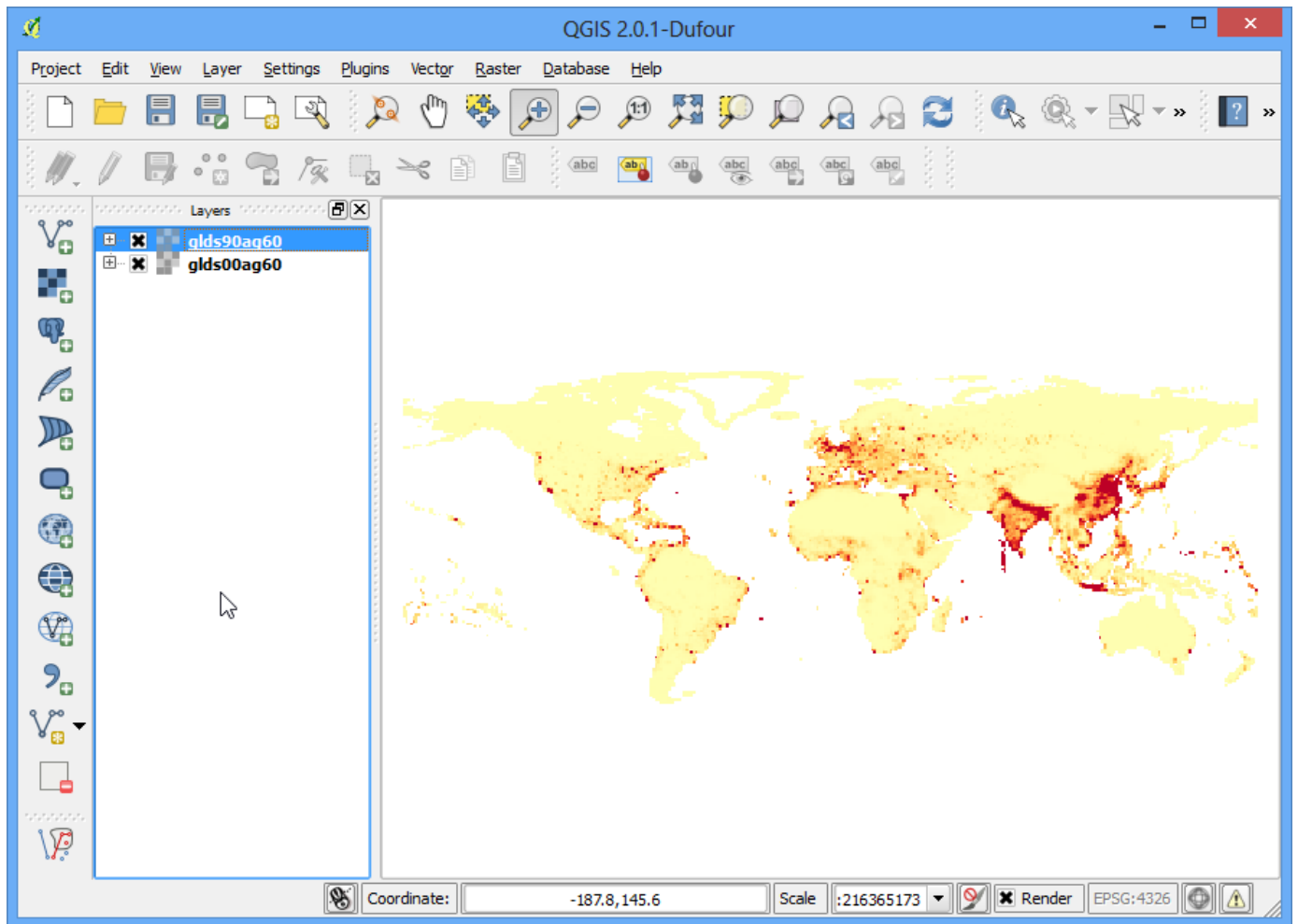
10. `guiabel: Properties`. TOC , Table of Contents.



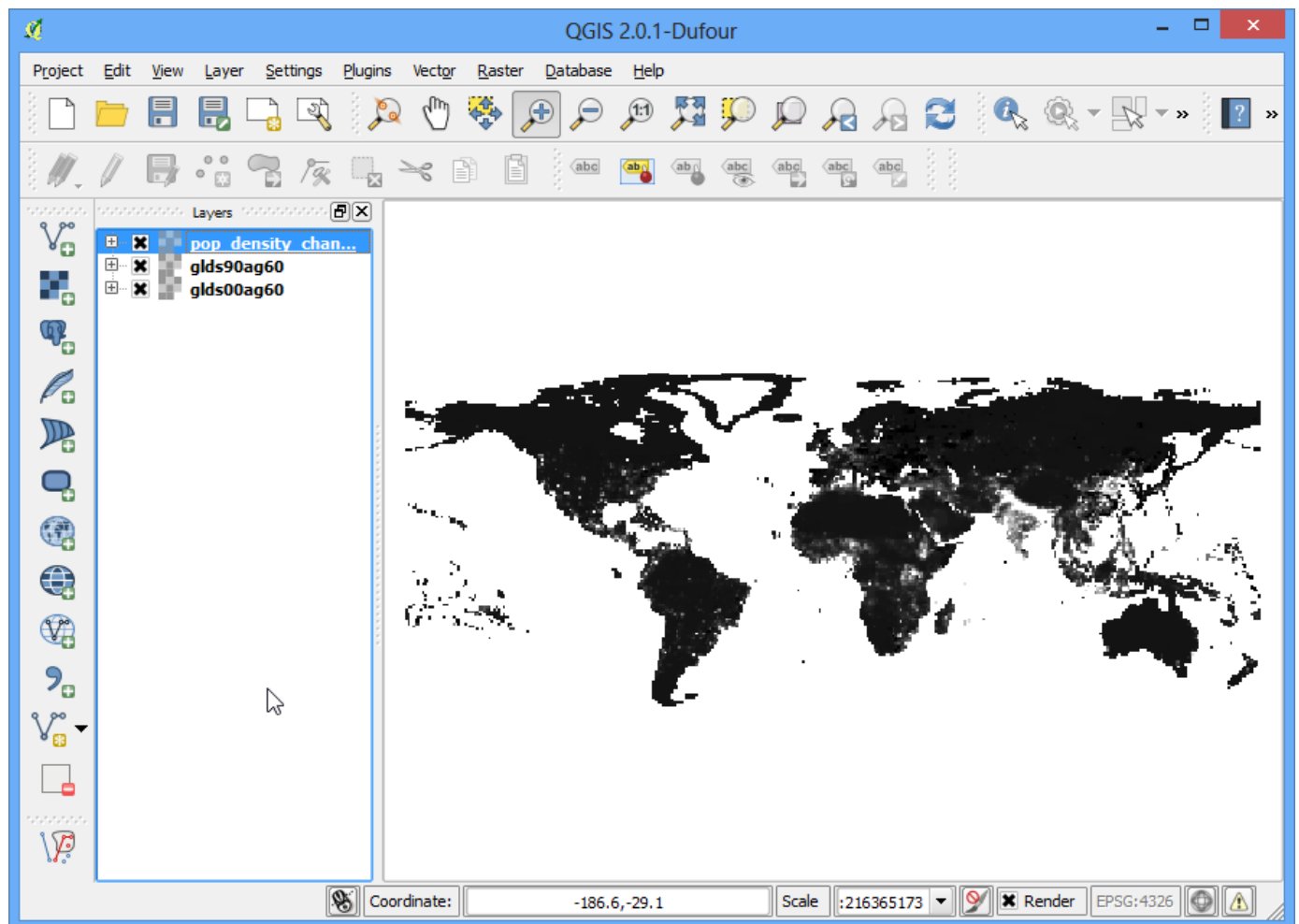
11. ■■■■ Style ■■■■ ■■ ■■ Render type ■ ■■■■■ ■■■■■ Singleband pseudocolor ■
 ■■■■■. ■■ ■ ■■■■ ■■ :guilabel:`Generate a new color map` ■■ ■■ :guilabel:`Classify` ■
 ■■■■■. 5 ■■ ■■■■ ■■■■ ■■■■■ ■■ ■ ■■■■■. :guilabel:`OK` ■ ■■■■■.



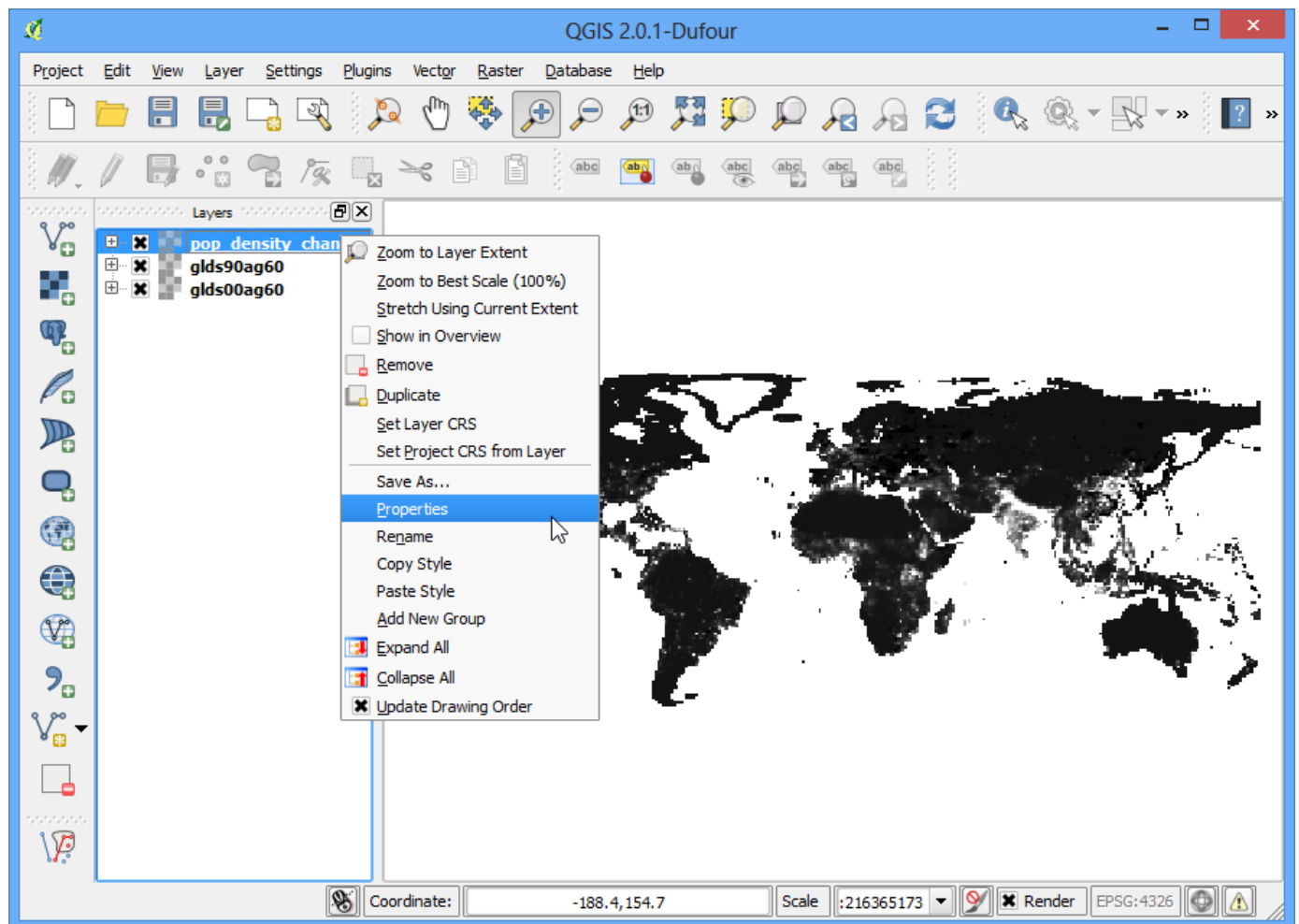
12. QGIS ■■■■ ■■■■ ■■■■. ■■■■ ■■■■ ■■ ■■■■ ■■ ■ ■■■■. ■■ ■■■■ ■■ ■■■■ ■■ ■■■■.



13. ■■■■■■ 1990■■■ 2000■ ■■■■ ■■ ■■■■■■ ■ ■■ ■■ ■■■■■■. ■■■■ ■■■■ ■■ ■■■■ ■■■■ ■■■■■■ ■ ■■ ■■■■ ■■■■ ■■■■. ■■■> ■■■■ --> ■■■■ ■■■■ :menuselection: Raster --> Raster calculator`■ ■■■■■■.



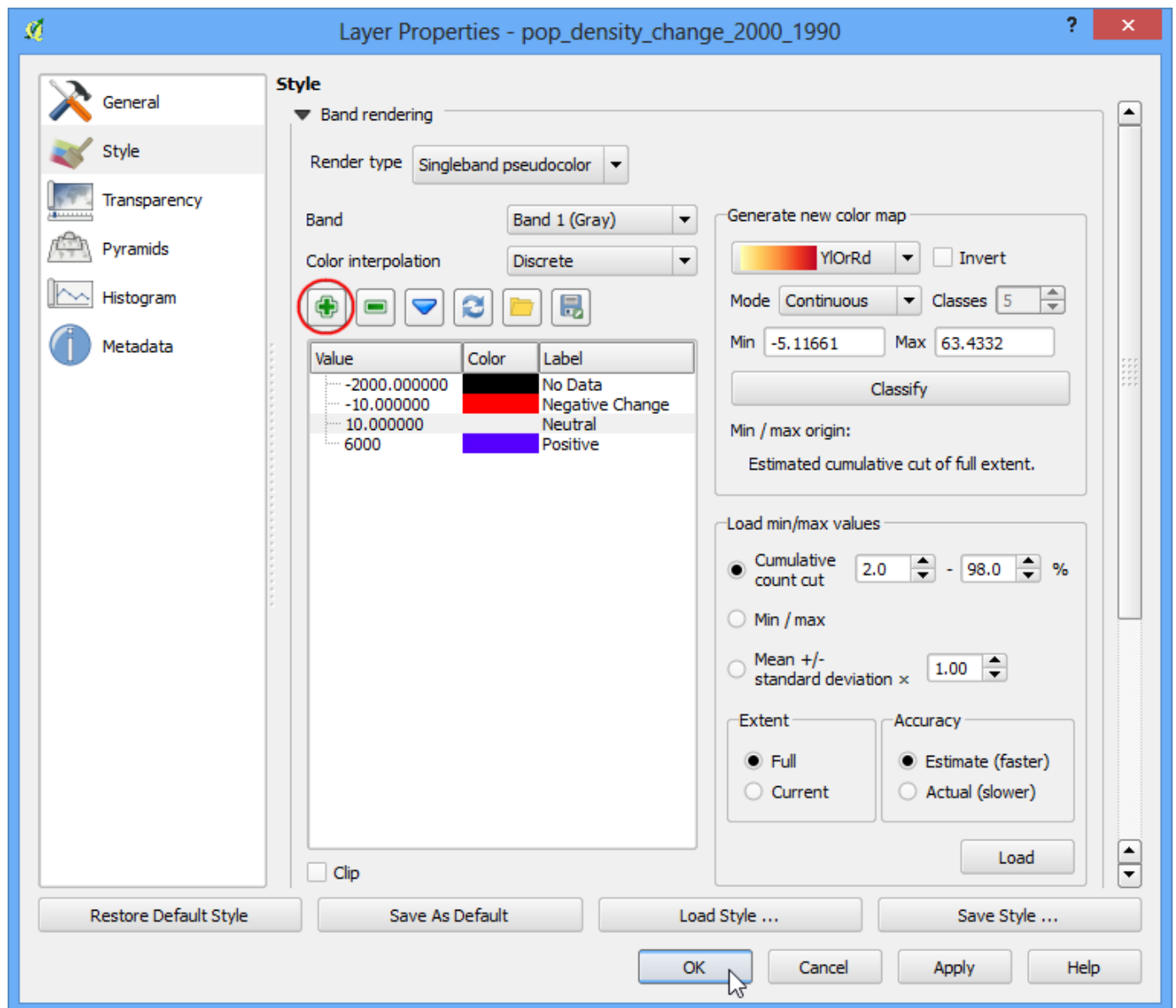
16. `pop_density_change_2000_1990``
 :guilabel: Properties



17. `guiabel: 'Metadata'`



18. **Style** **Band Rendering** **Render type** **Singleband pseudocolor** **Color interpolation** **Discrete** **Add entry** **4** **-2000** **-2000** **No Data** **OK**



19. `self.zoom_in_button.setText('Zoom In')`



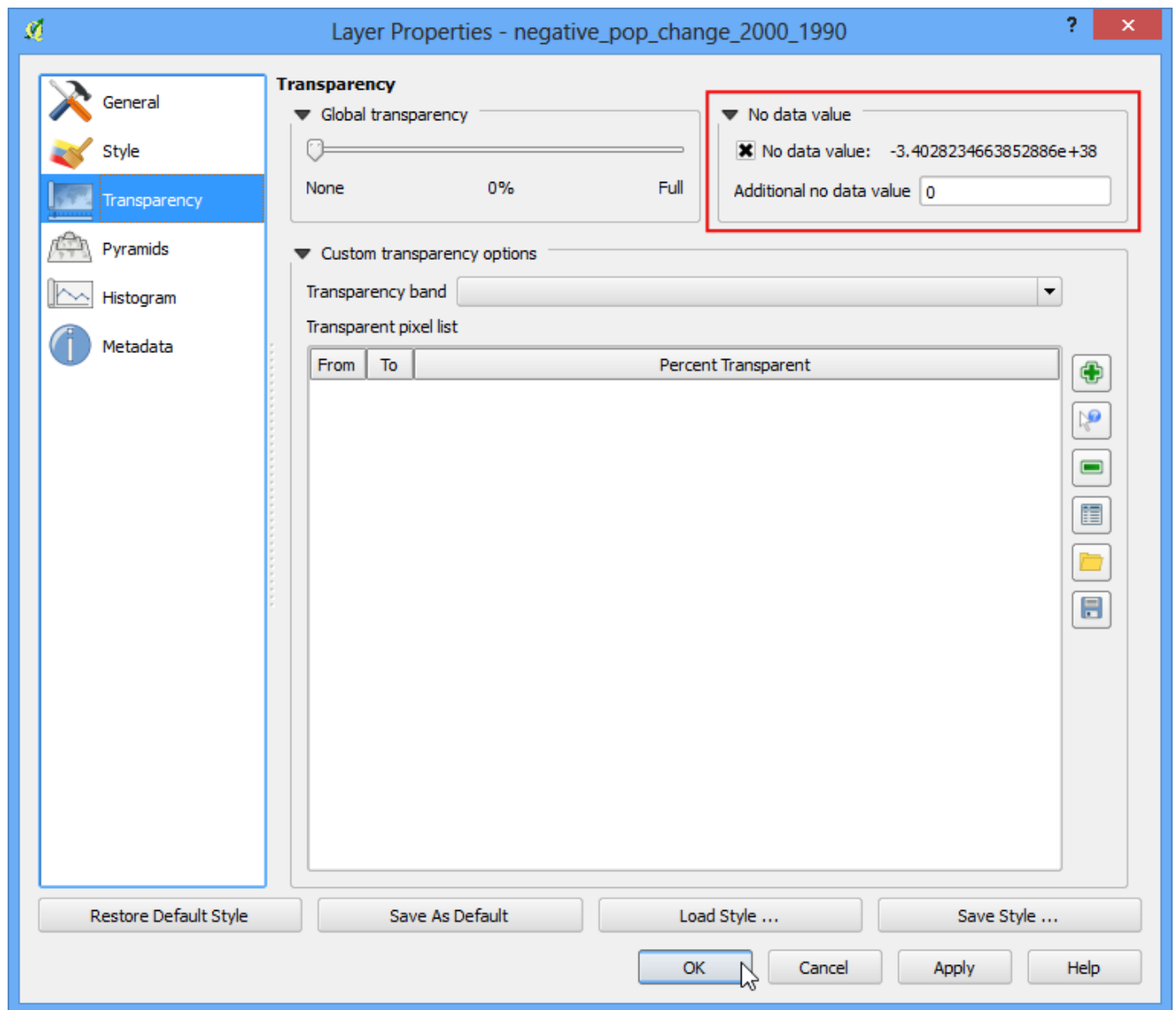
21. ■■■ ■ ■ ■ ■■■■ ■■■■■■ '■■■' ■■■■ ■■■■■■. ■■ ■■■■ --> ■■■■ ■■■■
 :menuselection: `Raster --> Raster calculator` ■■■■.



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



23. ■■■ ■■■■ ■■■■ ■■■■■■■■■■. ■■■■ ■■■■ ■■■■ ■ ■■■ ■■■ :guilabel: `Properties` ■■■■■■■■. ■■■■ :guilabel: `Transparency` ■■■■ ■■■■ no data value :guilabel: `Additional no data value` ■ 0 ■■■■■■■■. ■■■■ ■■■■ 0 ■■■ ■■■ ■■■ ■■■■ ■■■■■■. :guilabel: `OK` ■■■■■■■■.



24. ■■ ■■■■■ ■■■ ■■■ ■■ ■■■ ■ ■■■■.

