Basic Raster Styling and Analysis

QGIS Tutorials and Tips



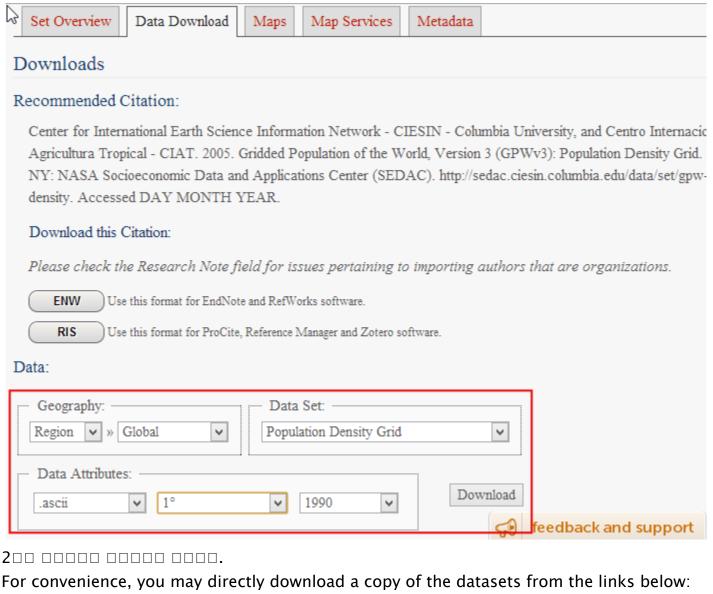
Author Ujaval Gandhi

http://google.com/+UjavalGandhi

Translations by SongHyun Choi

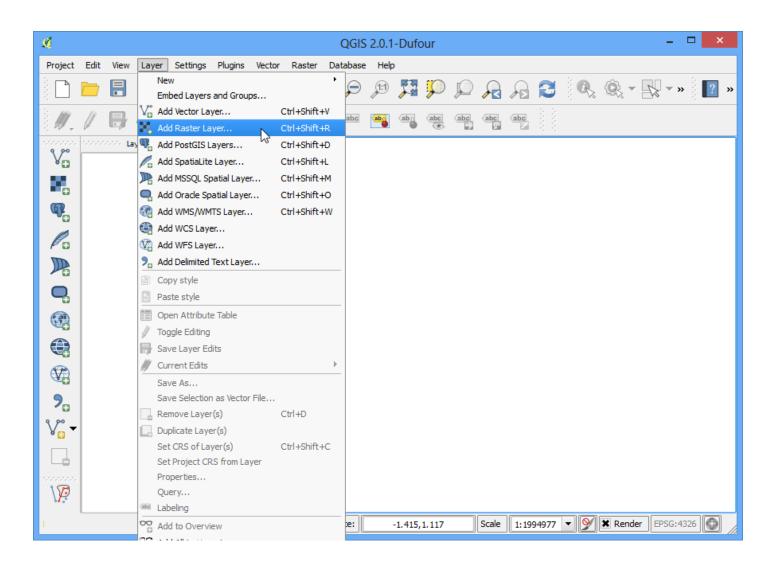
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• QGIS====================================
□ □□□□□ Columbia University□ Gridded Population of the World (GPW) v3 □□□□□ □□□

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.

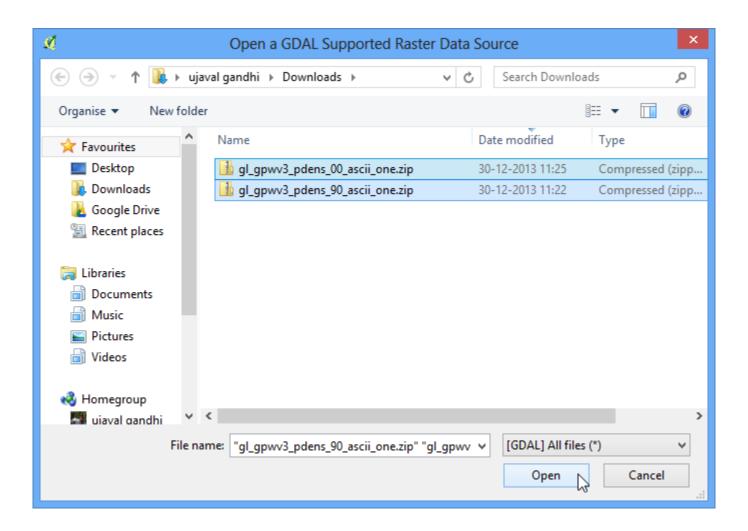


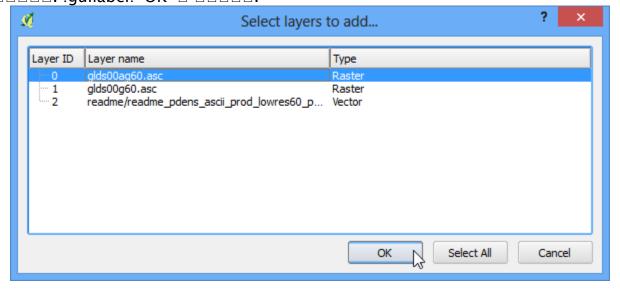
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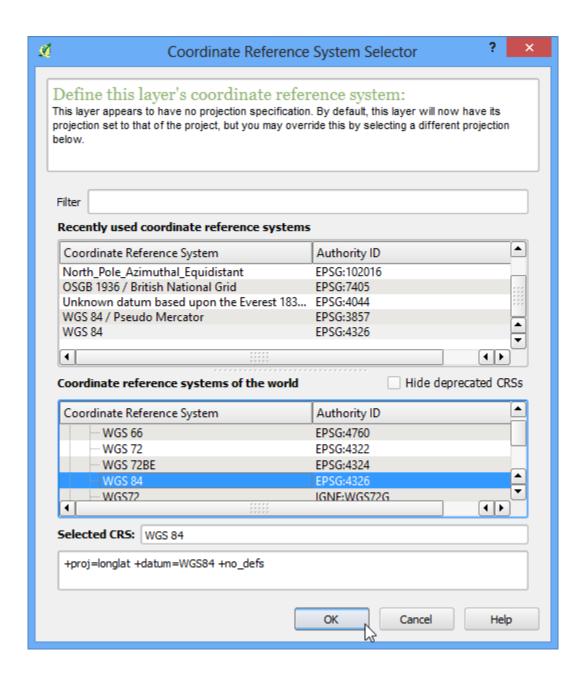


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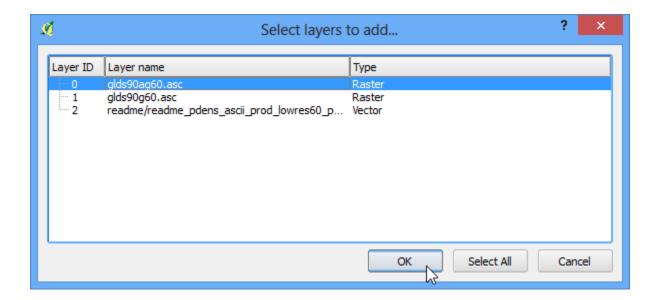




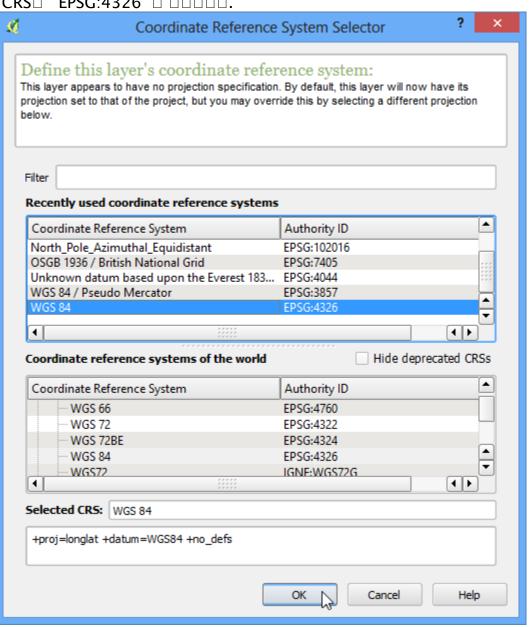
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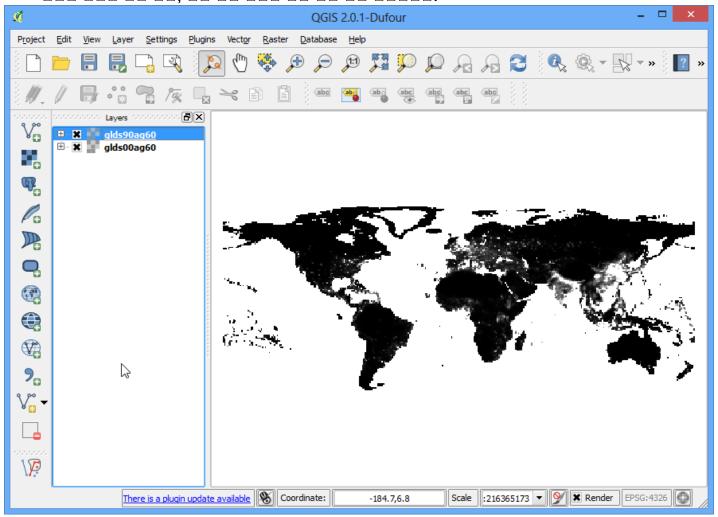


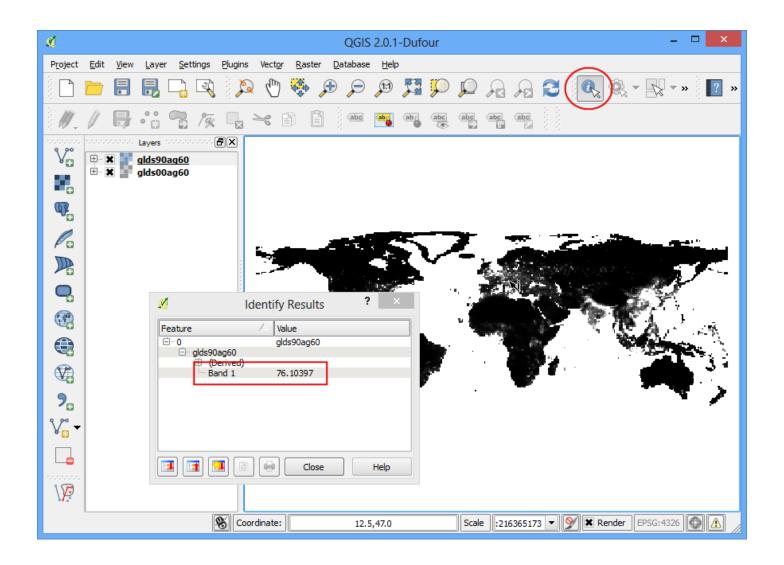
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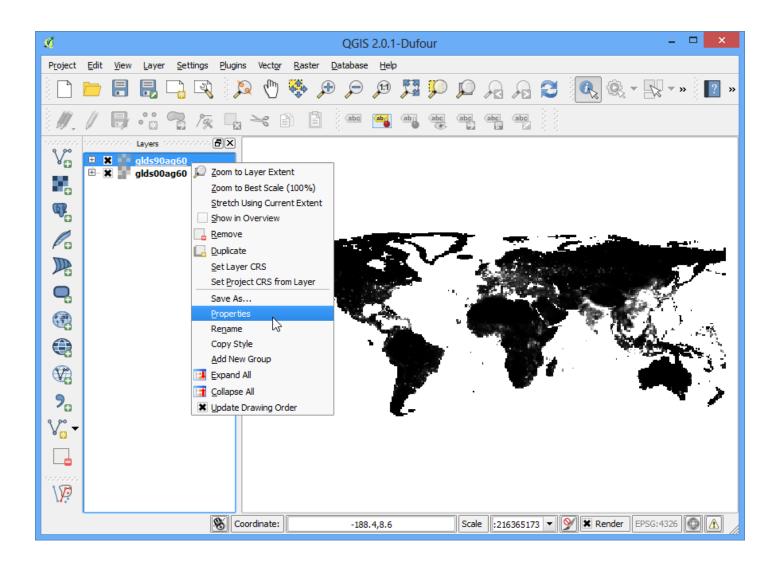


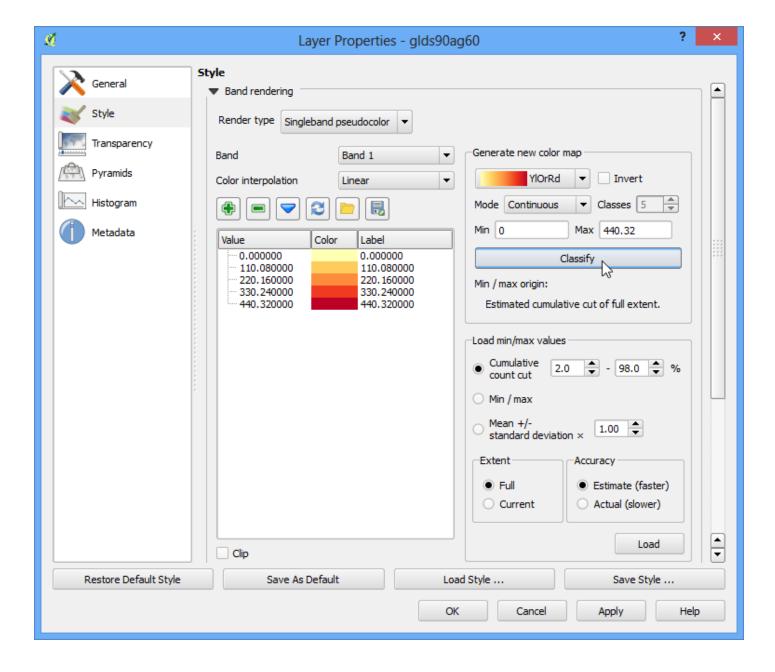
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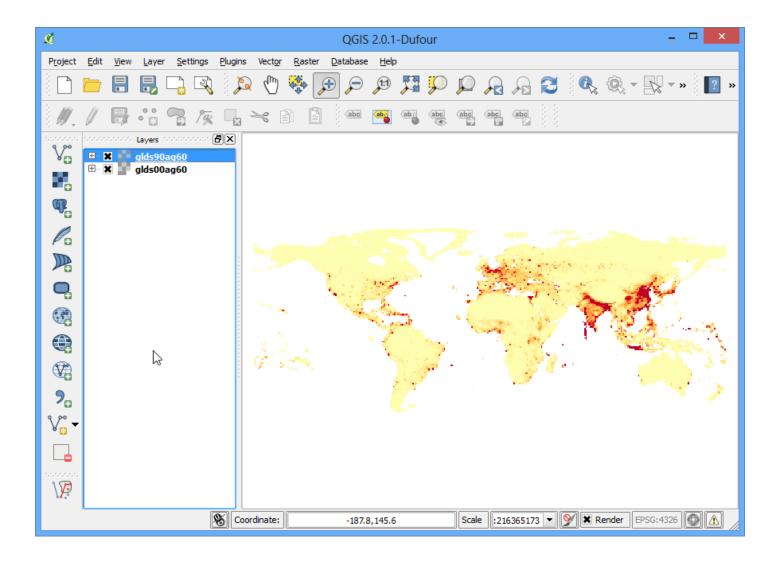








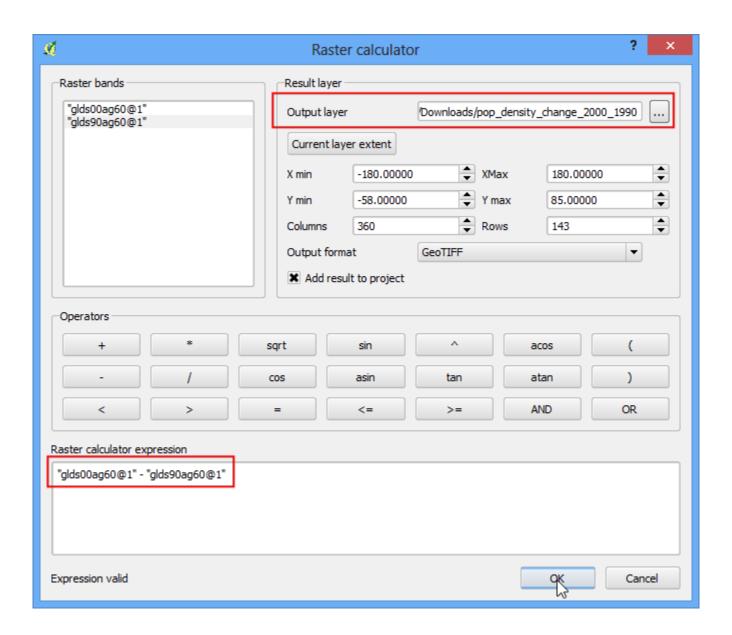




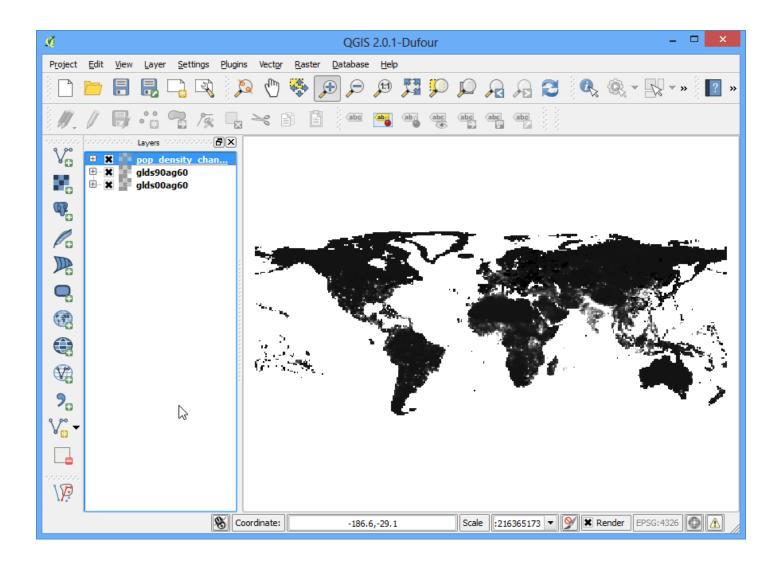


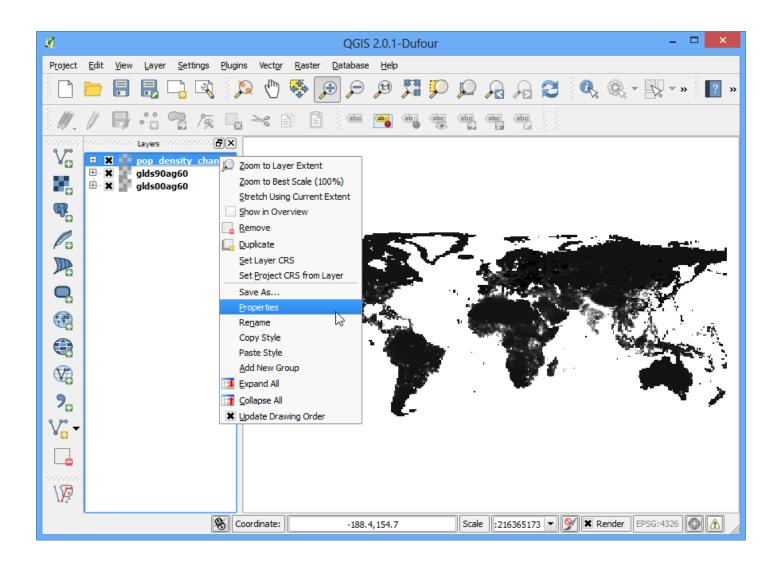


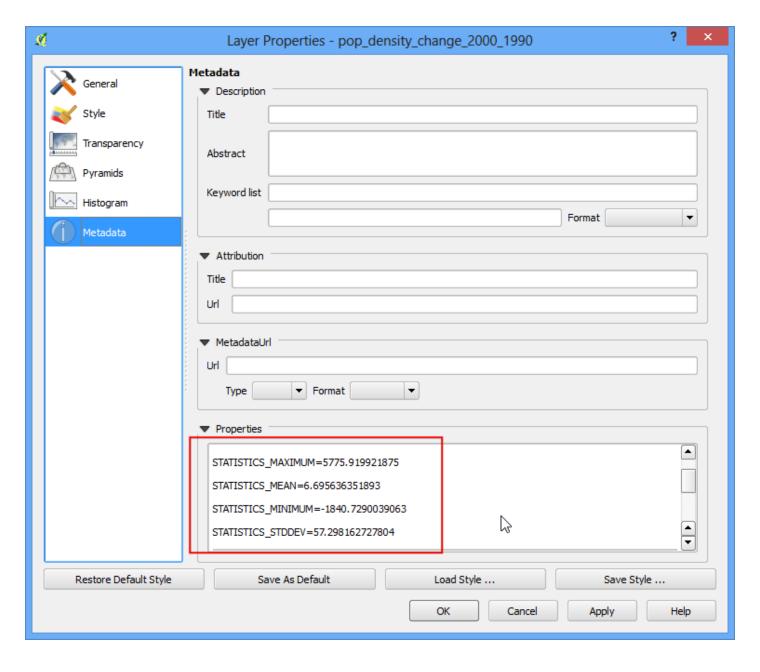
14. In the Raster bands section, you can select the layer by double-clicking on them. The bands are named after the raster name followed by @ and band number. Since each of our rasters have only 1 band, you will see only 1 entry per raster. The raster calculator can apply mathematical operations on the raster pixels. In this case we want to enter a simple formula to subtract the 1990 population density from 2000. Enter <code>glds00ag60@1 - glds90ag60@1</code> as the formula. Name your output layer as <code>pop_density_change_2000_1990.tif</code> and check the box next to Add result to project. Click OK.



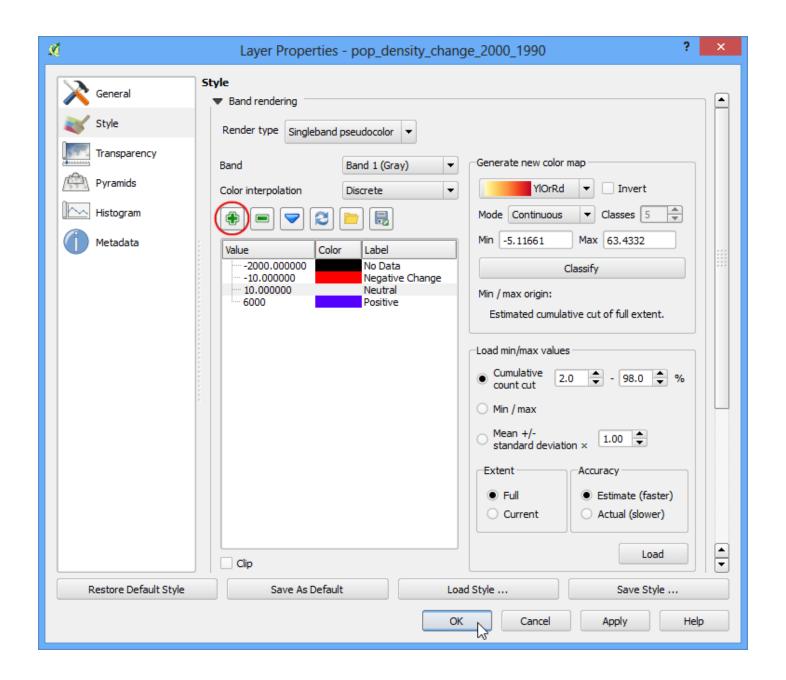
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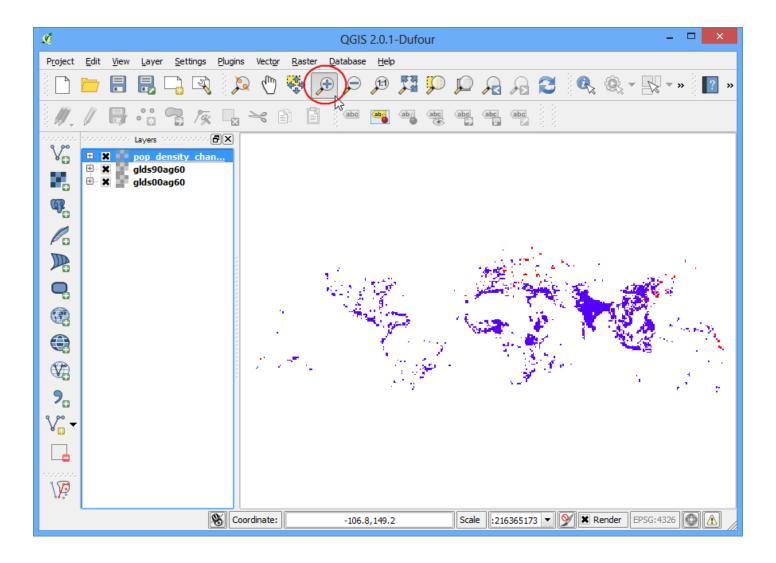




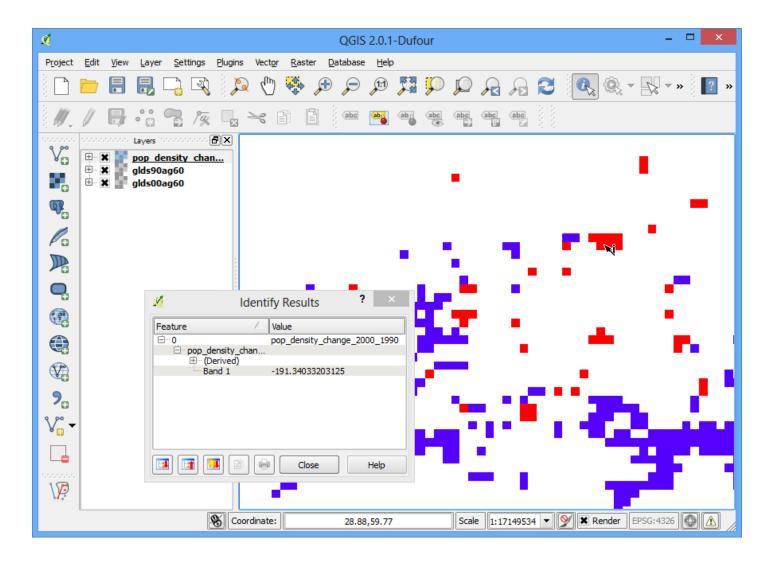
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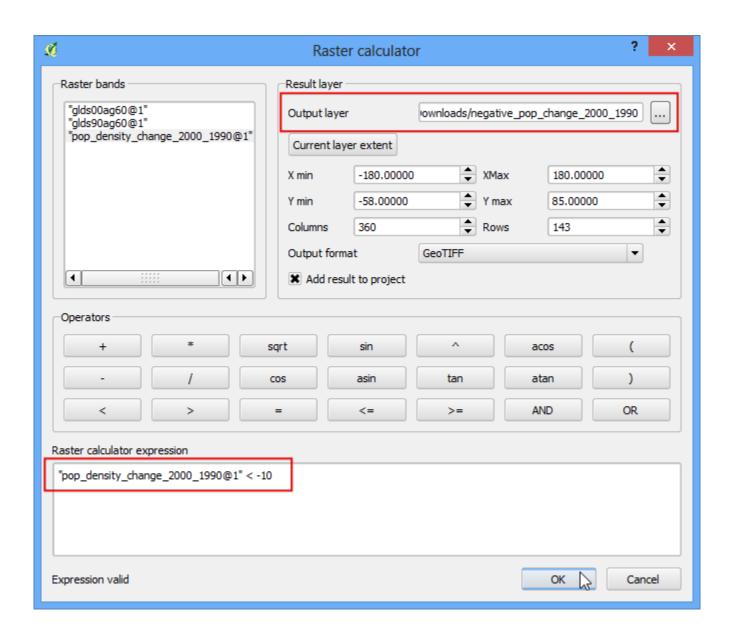
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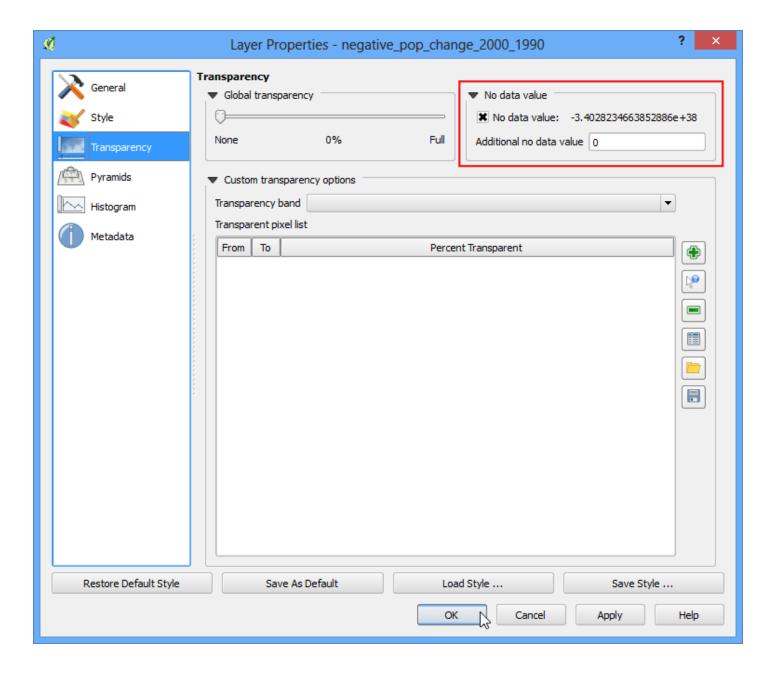




22. Enter the expression as shown below What this expression will do is set the value of the pixel to 1 is if matches the expression and 0 if it doesn't. So we will get a raster with pixel value of 1 where there was negative change and 0 where there wasn't. Name the output layer as negative_pop_change_2000_1990 and check the box next to Add result to project. Click OK.

pop_density_change_2000_1990@1 < -10





24. 00 00000 000 000 00 000 0 0 000.

