

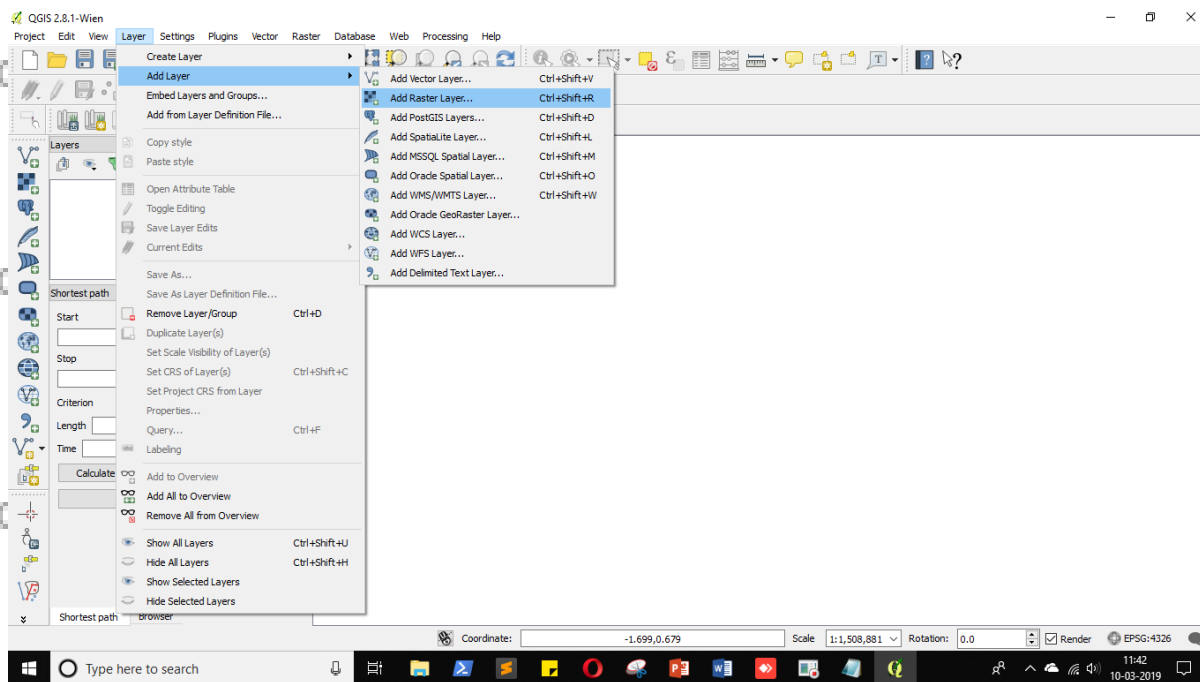
Download resources from below link.

https://drive.google.com/drive/folders/1B_TJDH1hnnCXNukcy-3_17uk2bmtqLQV?usp=sharing

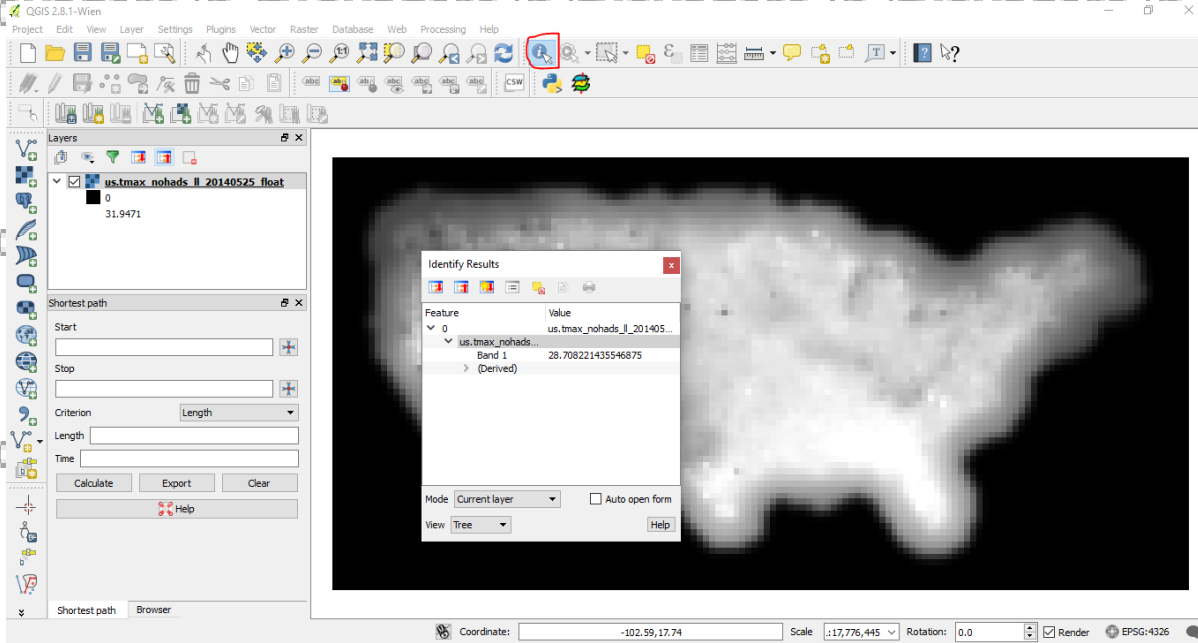
Open “**QGIS Desktop 2.8.1**”. Go to

Layer > Add Layer > Add Raster Layer...

And select “**us.tmax_nohads_ll_201405_float.tif**” and open it.



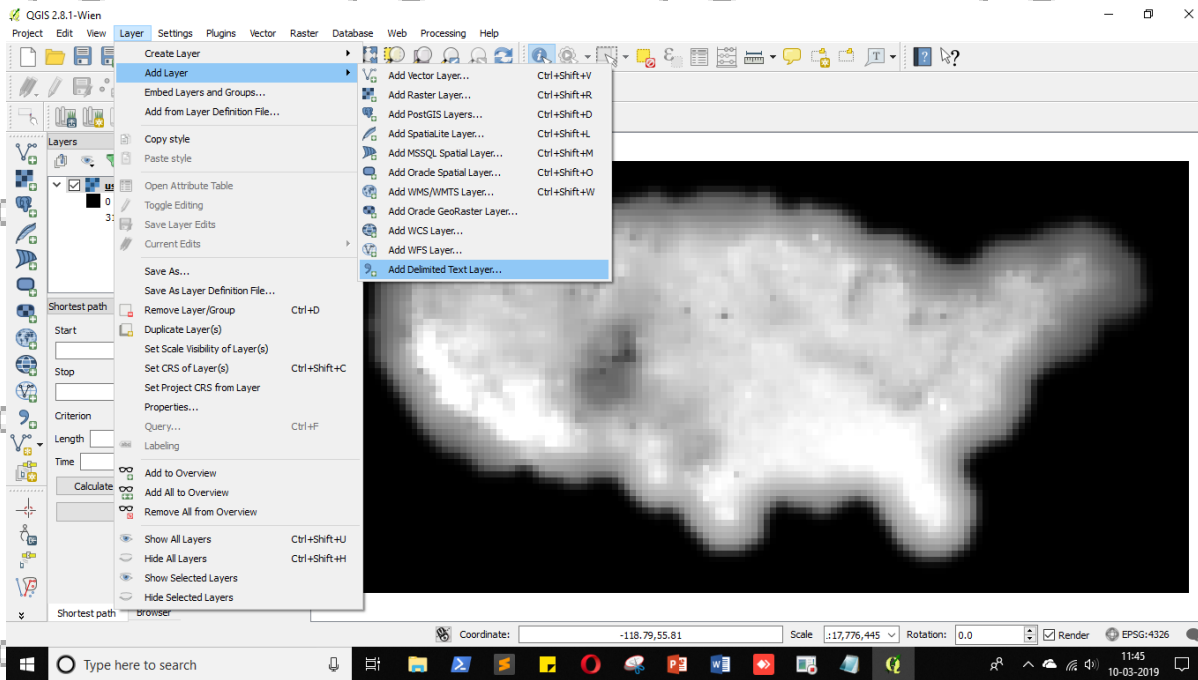
Now we can view raster image data by clicking on “**Identify feature**” button and just click on random places in raster layer. In identify result window it will display the data for that particular pixel.



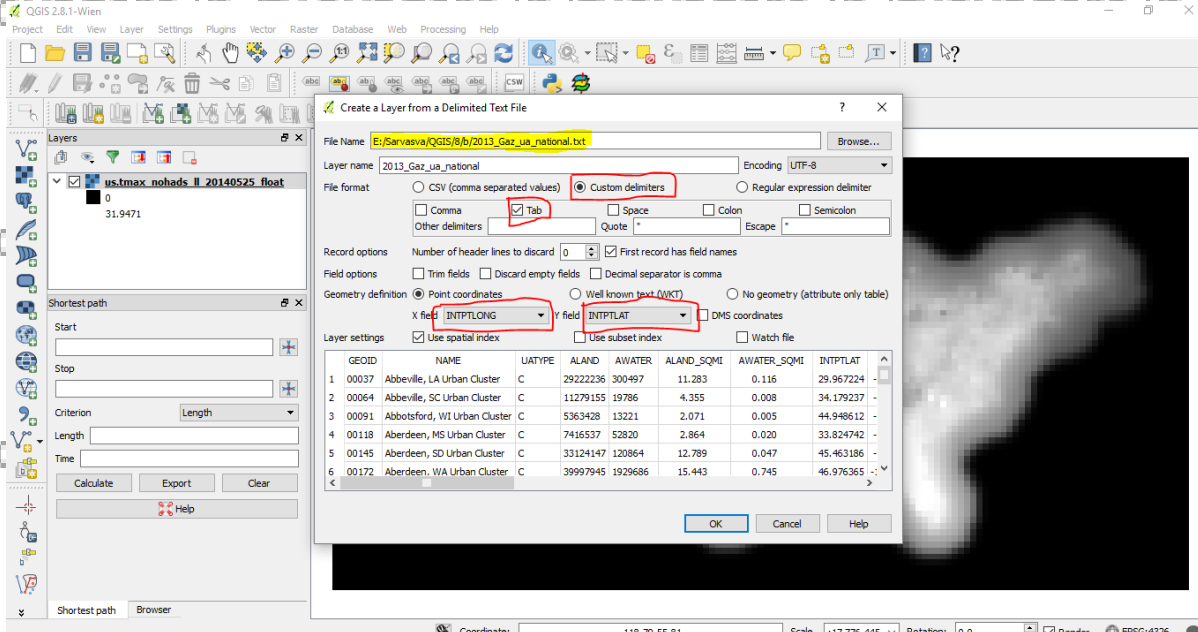
Now add “2013_Gaz_ua_national.txt” file. For that go to

Layer> Add Layer > Add Delimited Text Layer...

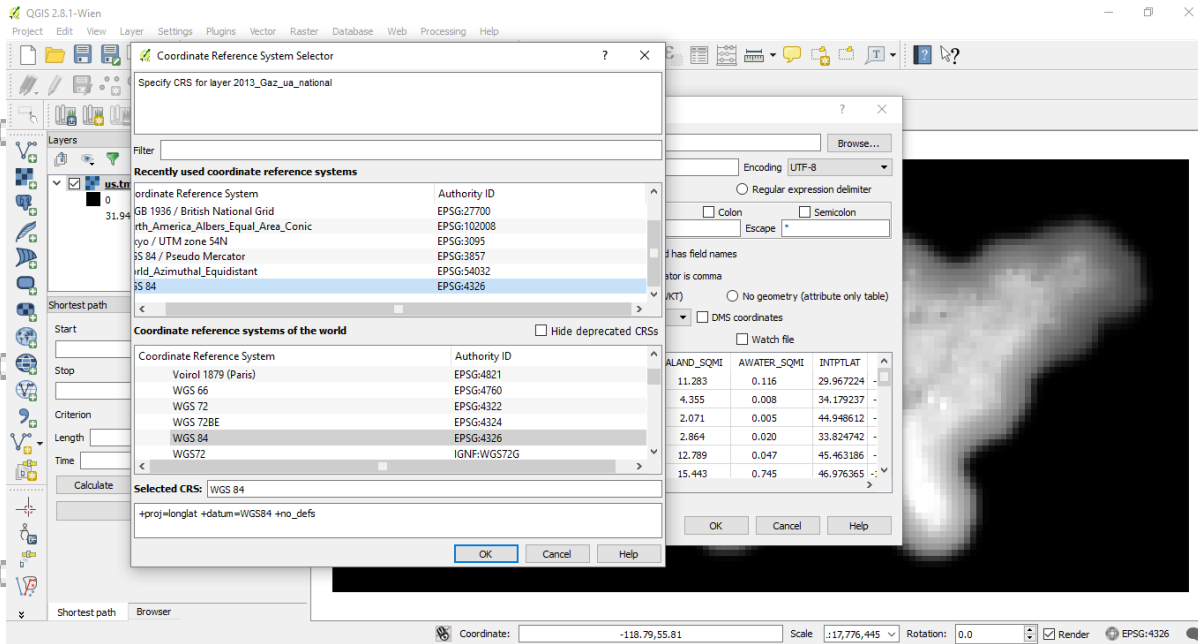
Browse “2013_Gaz_ua_national.txt” file and perform following changes.



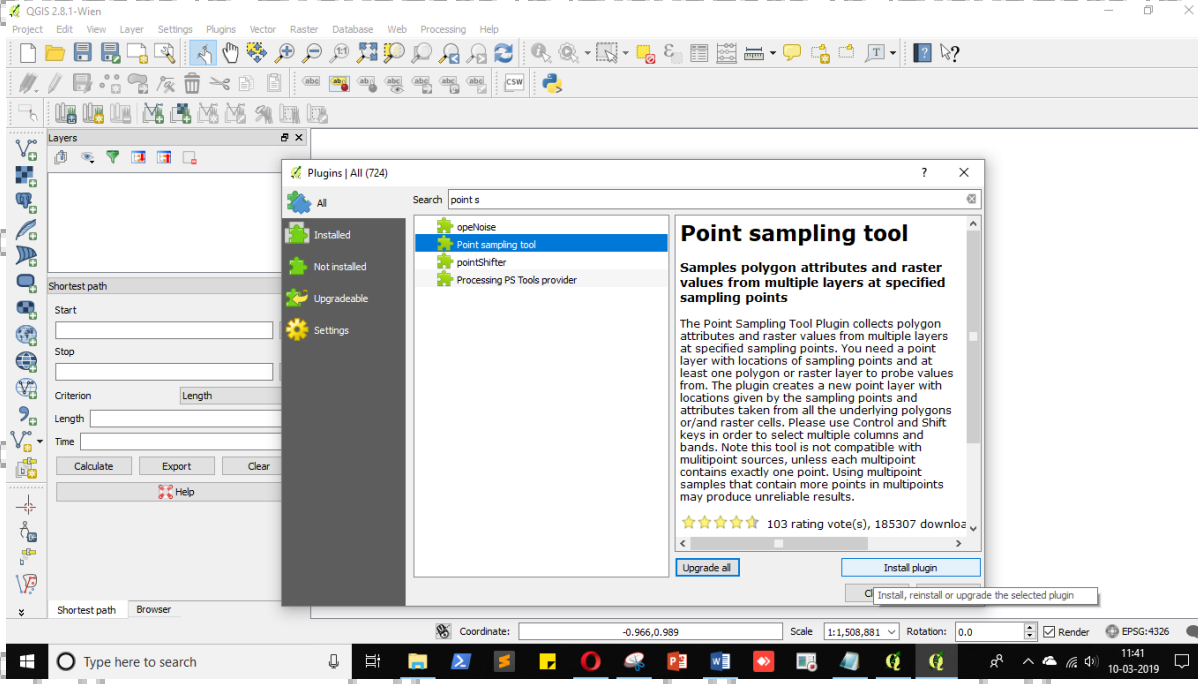
Select “Custom delimiters”, check “Tab” checkbox and select “INTPTLONG” & “INTPTLAT” in “X field” & “Y field” respectively. Then click on “OK”.



Select "EPSG:4326" in CRS selector window.

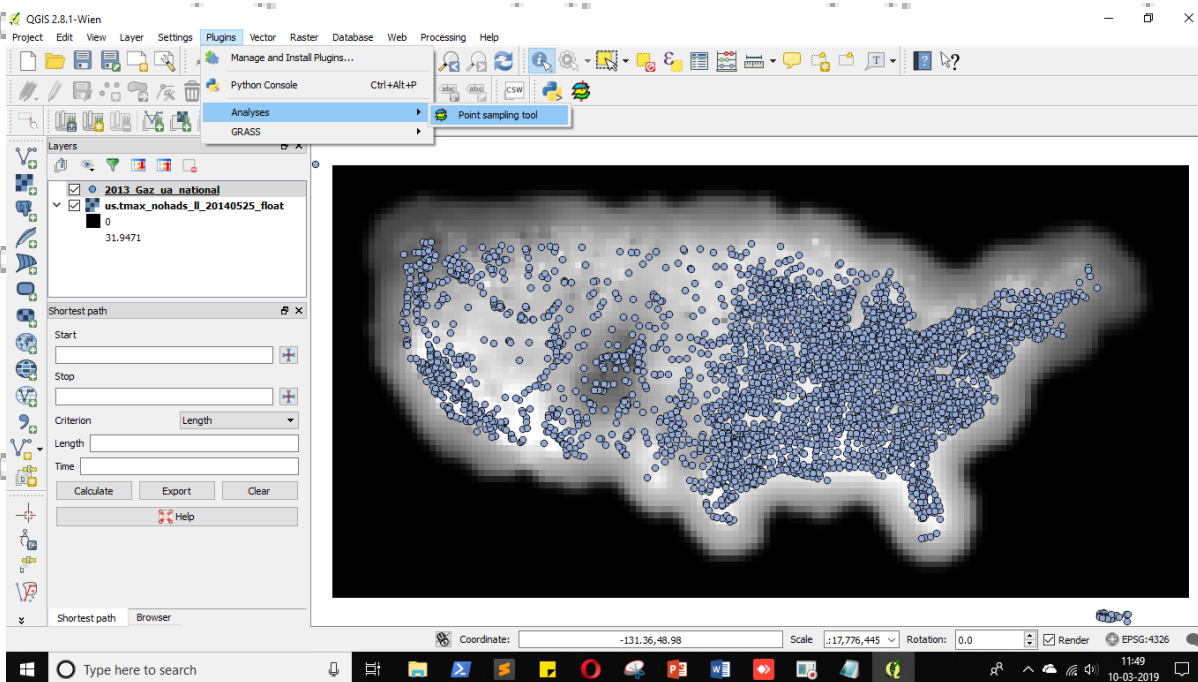


Now add "Point sampling tool" plugin.



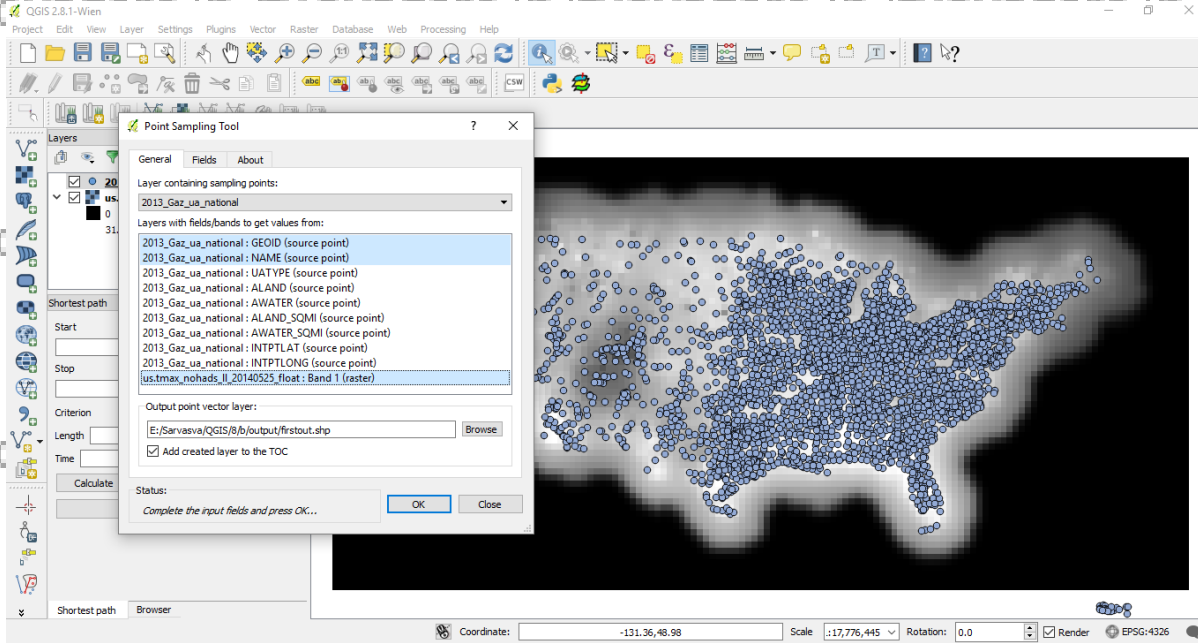
Once plugin is installed go to.

Plugins > Analyses > Point sampling tool

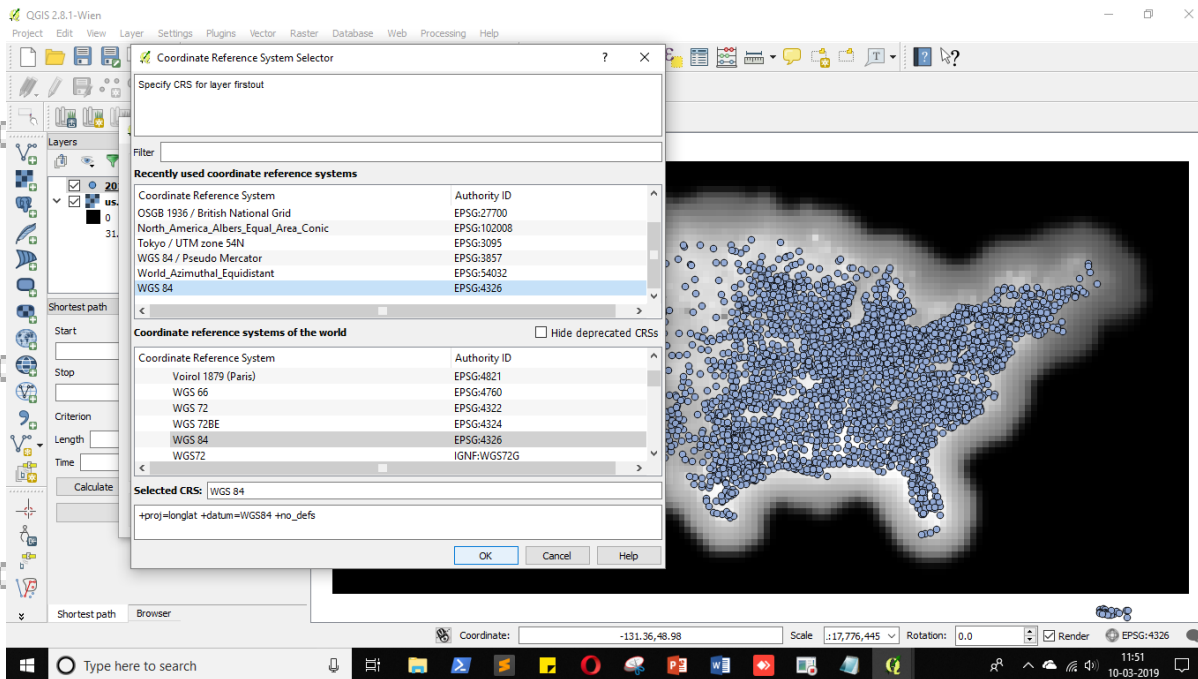


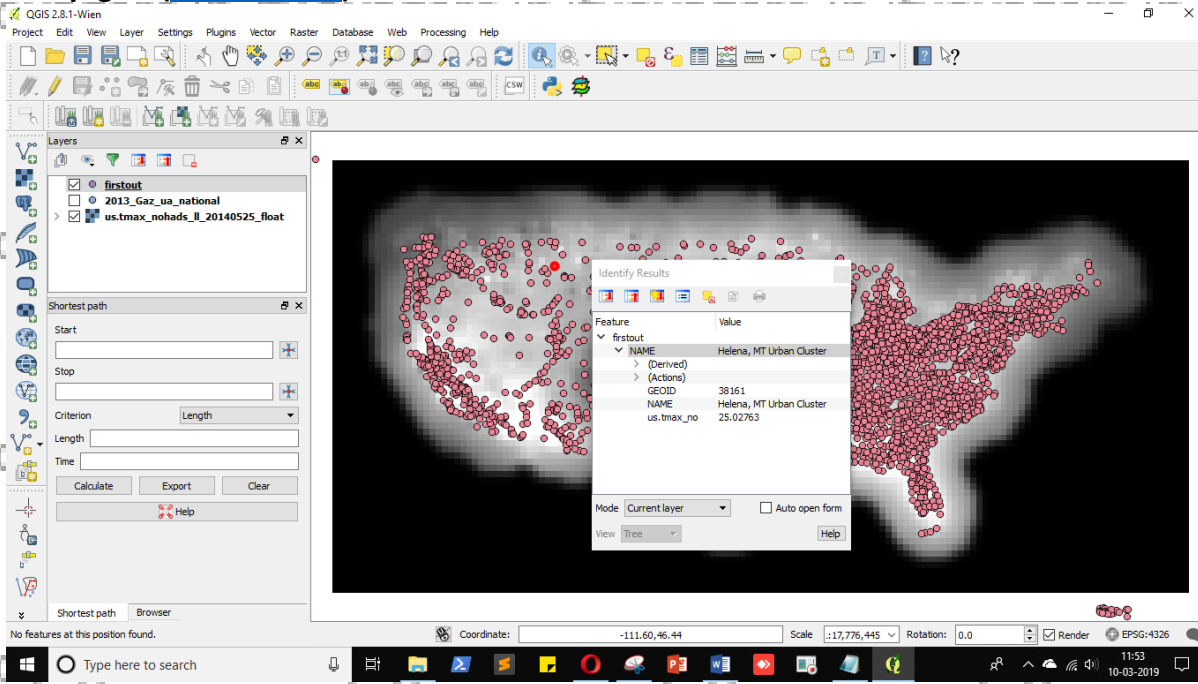
Now we have to select the few attributes, we are selecting **GOID, NAME** and **Band 1**.

Give output file name and path by clicking on **“Browse”**. Then click on **“OK”**.

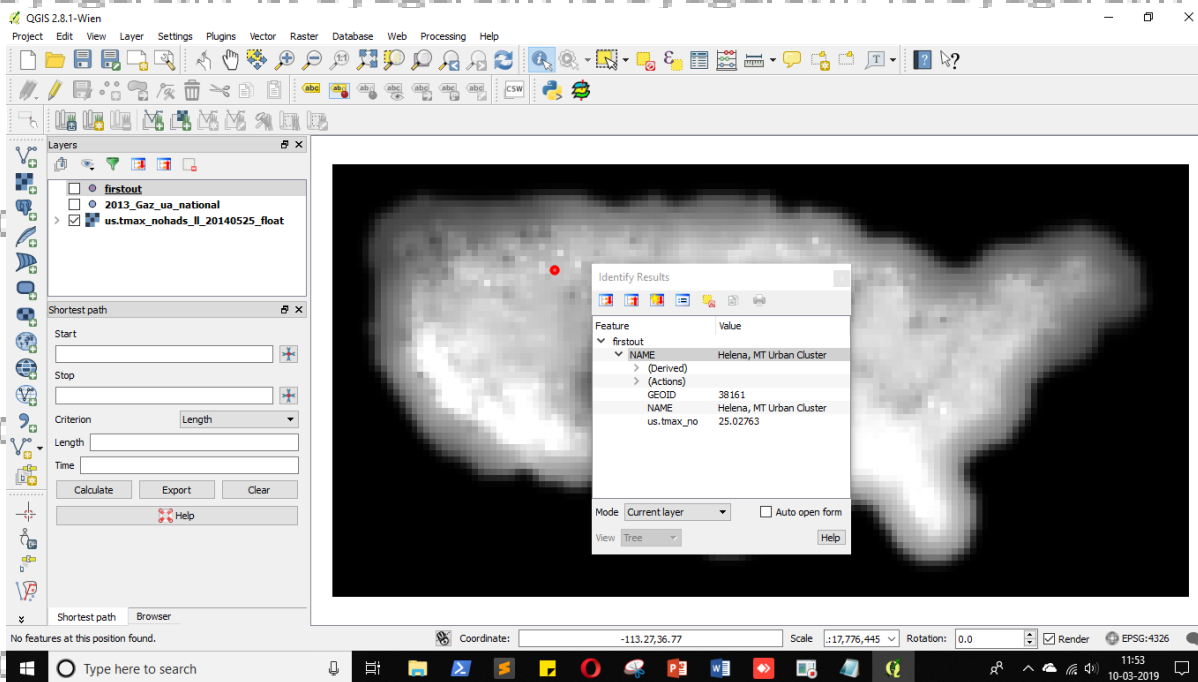


Select "EPSG:4326" in CRS and click on "OK".



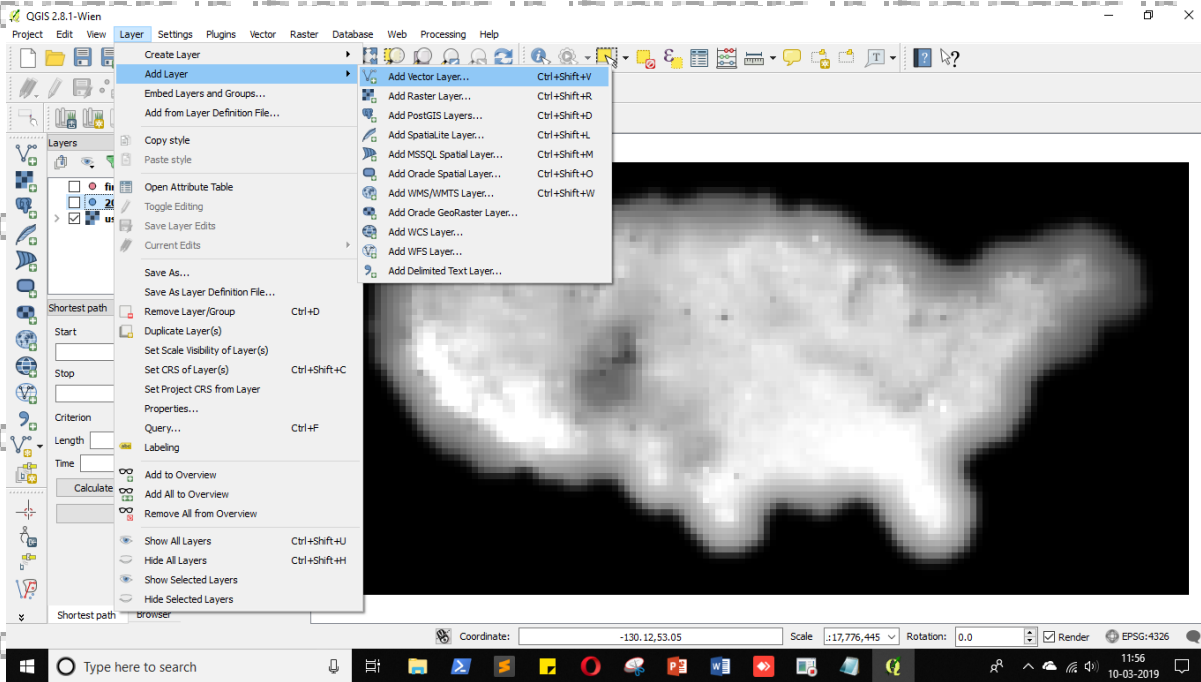


Yes our output layer is ready. Now select **“Identify feature”** tool and click on any point from output layer and after that deselect output layer and try clicking on same area in raster layer you will get similar results.

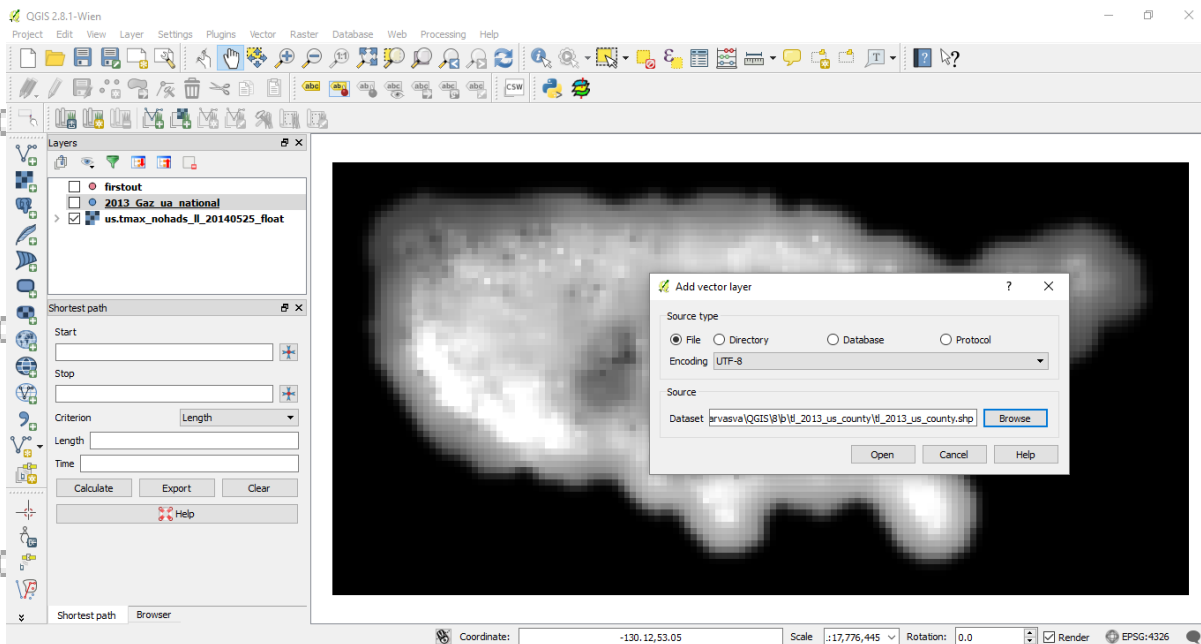


Now for polygon. Add **"tl_2013_us_county.shp"** file

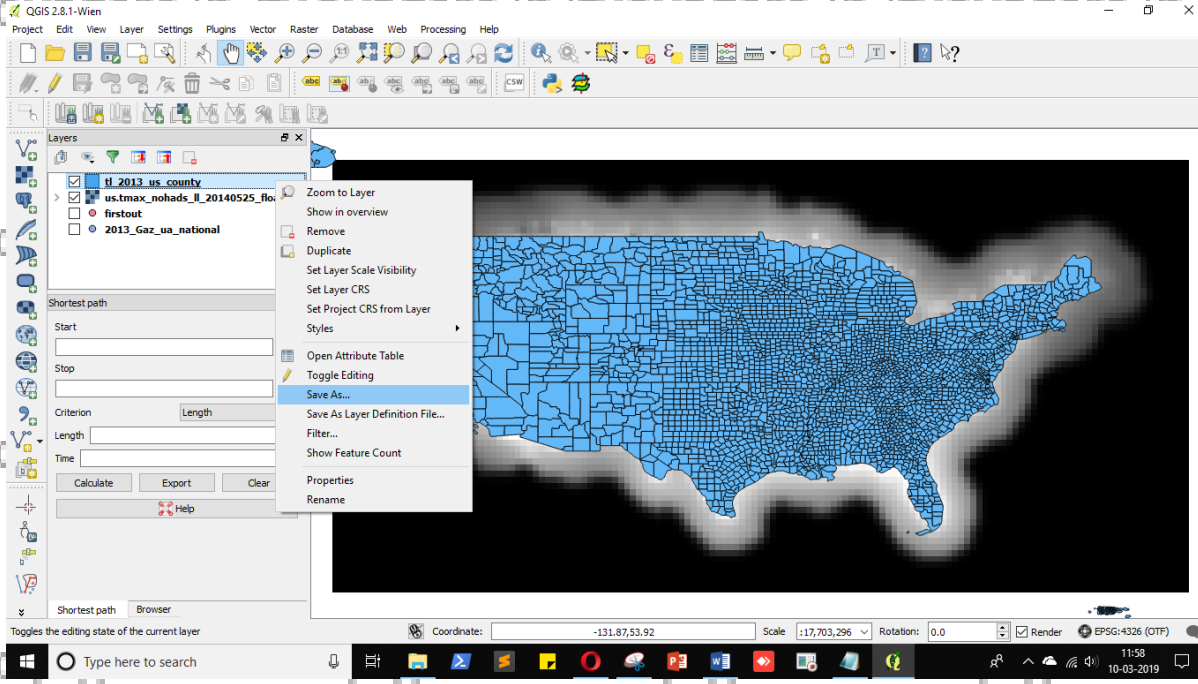
Layer > Add Layer > Add Vector Layer...



Browse **"tl_2013_us_county.shp"** file and click on **"Open"**.

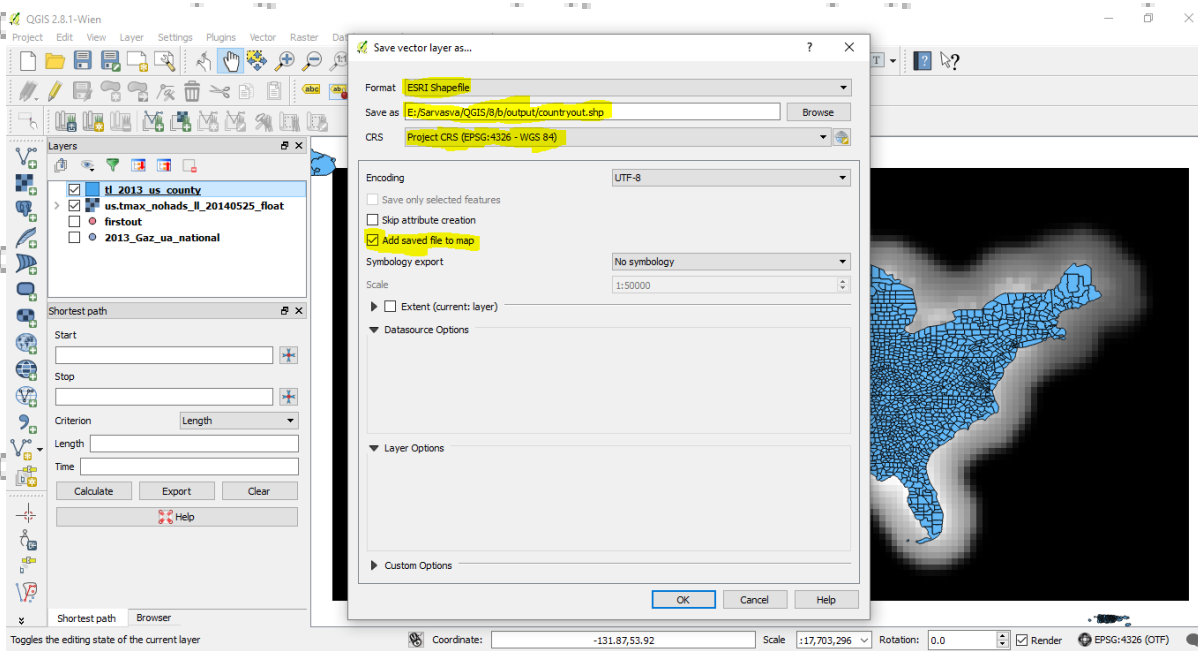


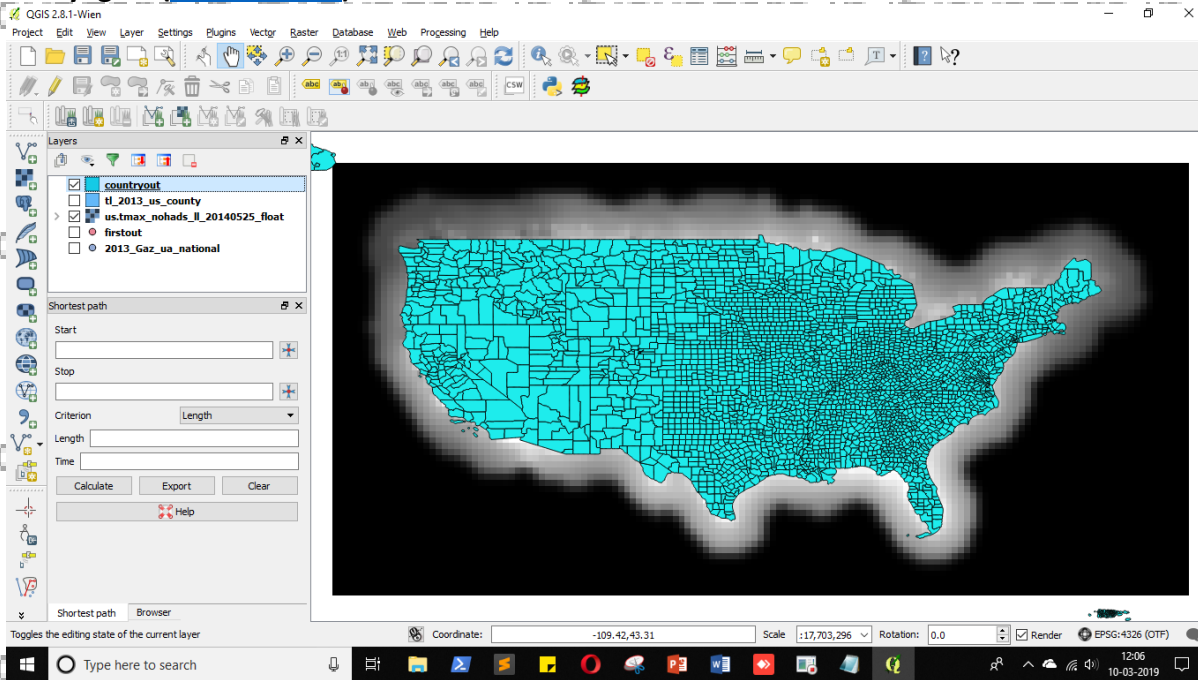
Now the problem is that the file is in different CRS we have to save the file in **"EPSG:4326"** CRS. Right click on layer and select **"Save As..."**



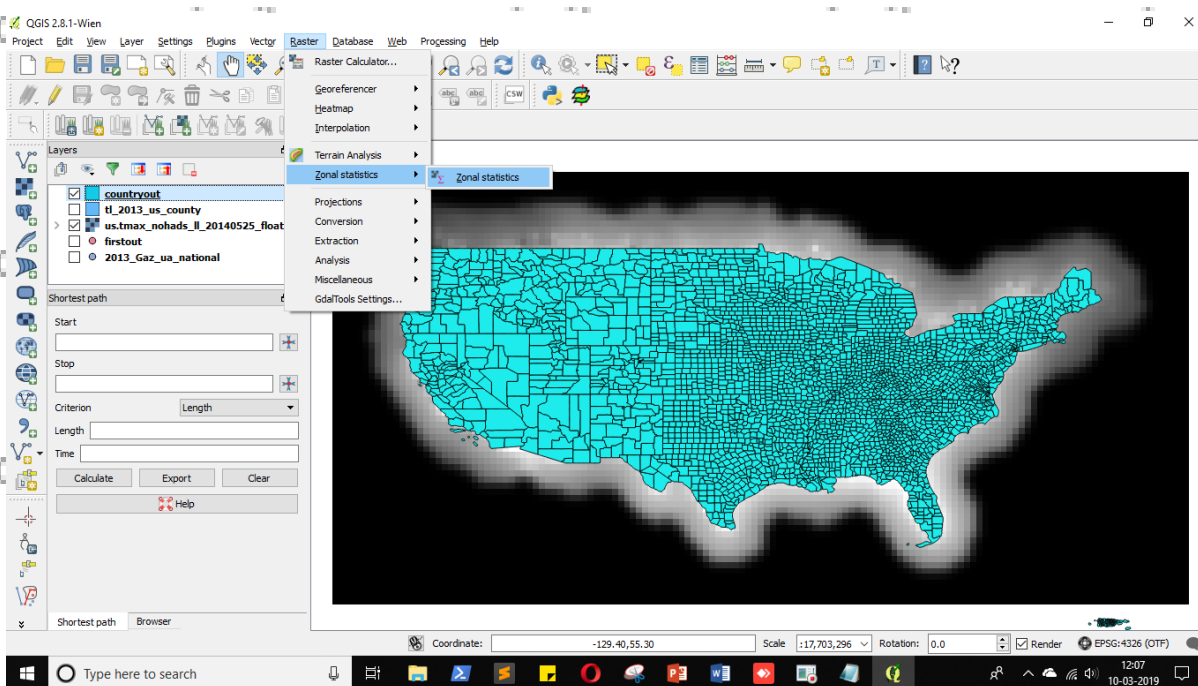
Give path and name to file and set “**EPSG:4326**” in CRS.

Check “**Add saved file to map**” checkbox and click on “**OK**”.

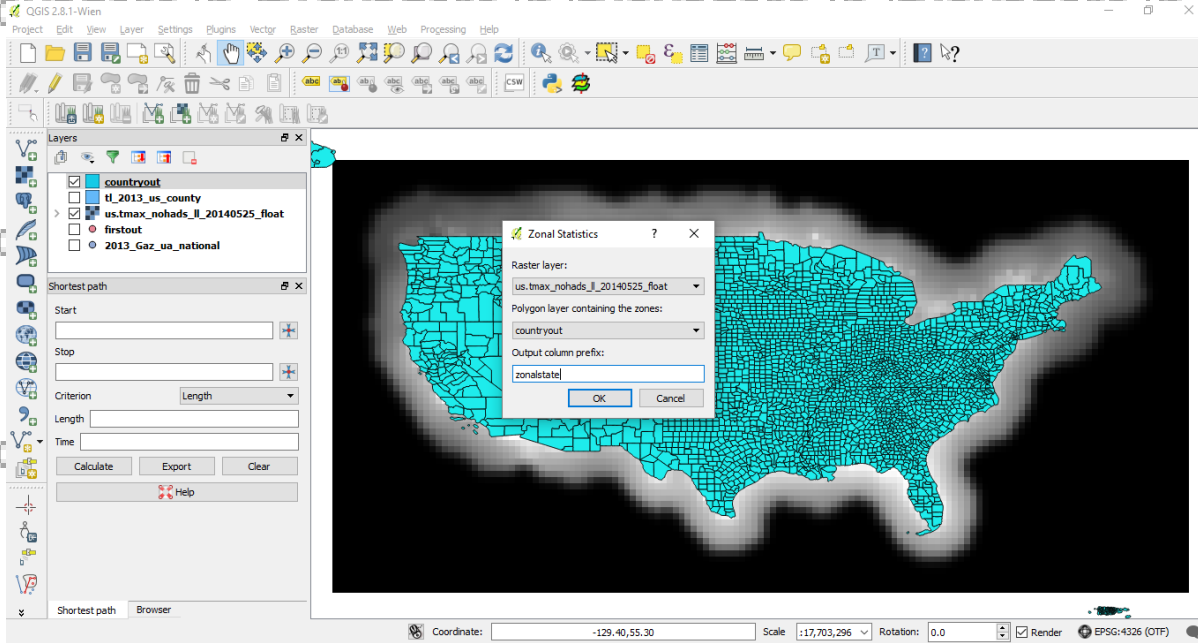




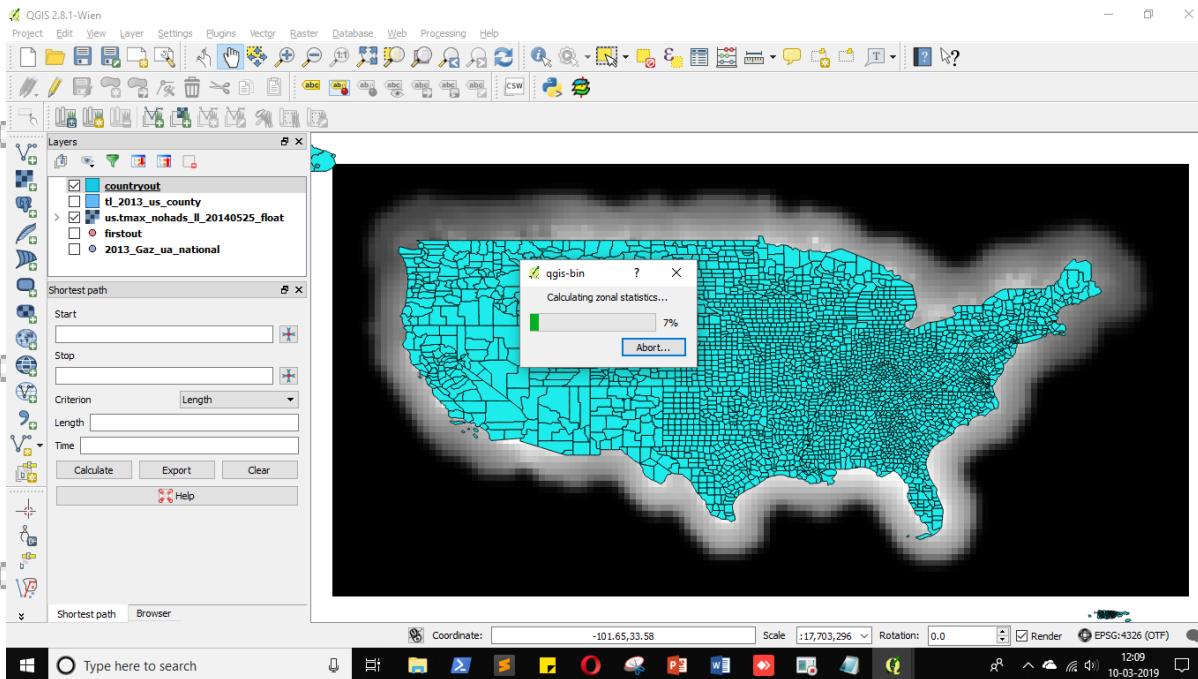
Once new layer is loaded go to
Raster > Zonal statistics > Zonal statistics

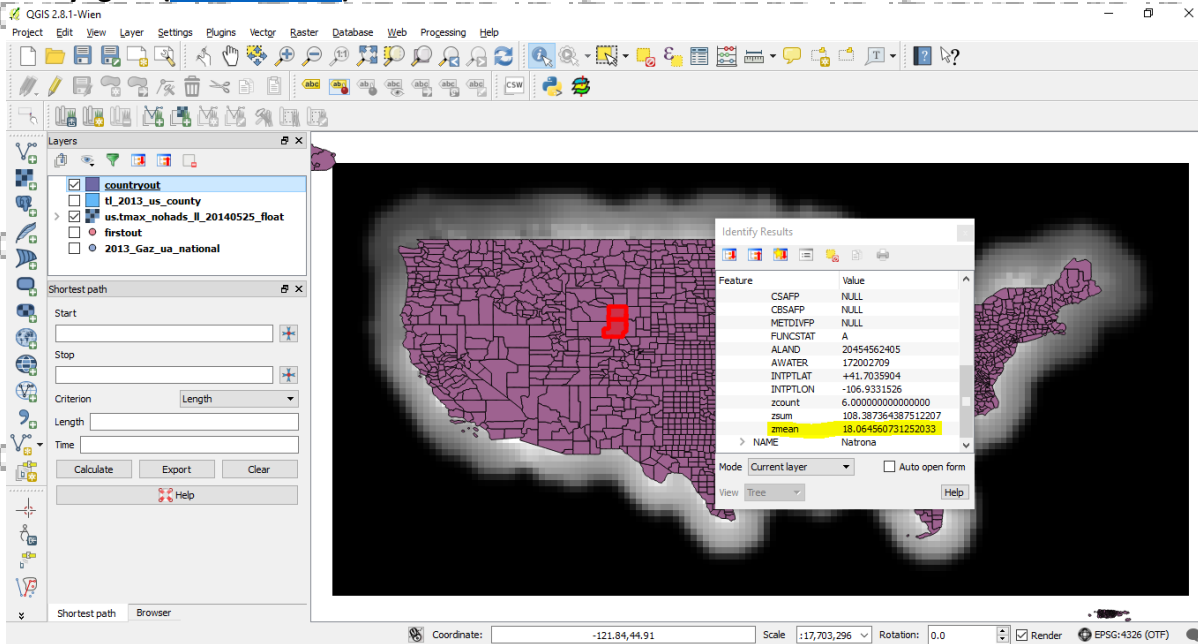


By default it will fill all data. Here “zonalstate” will be prefix for the columns which will be created.

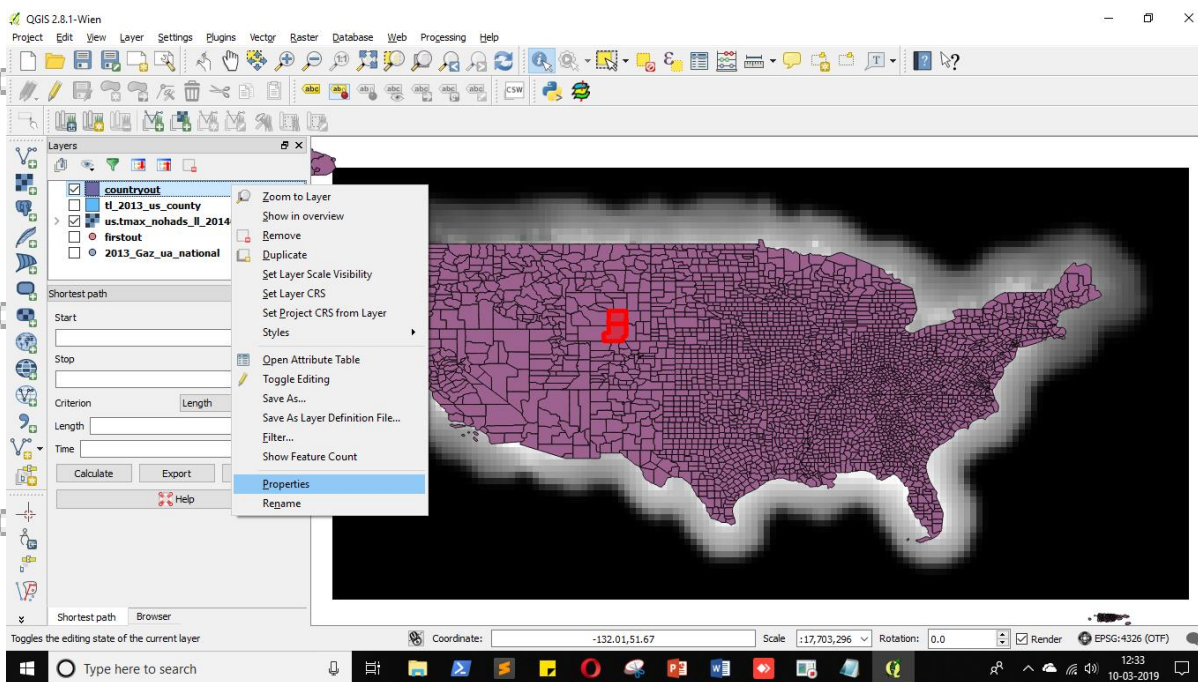


Click on "OK".





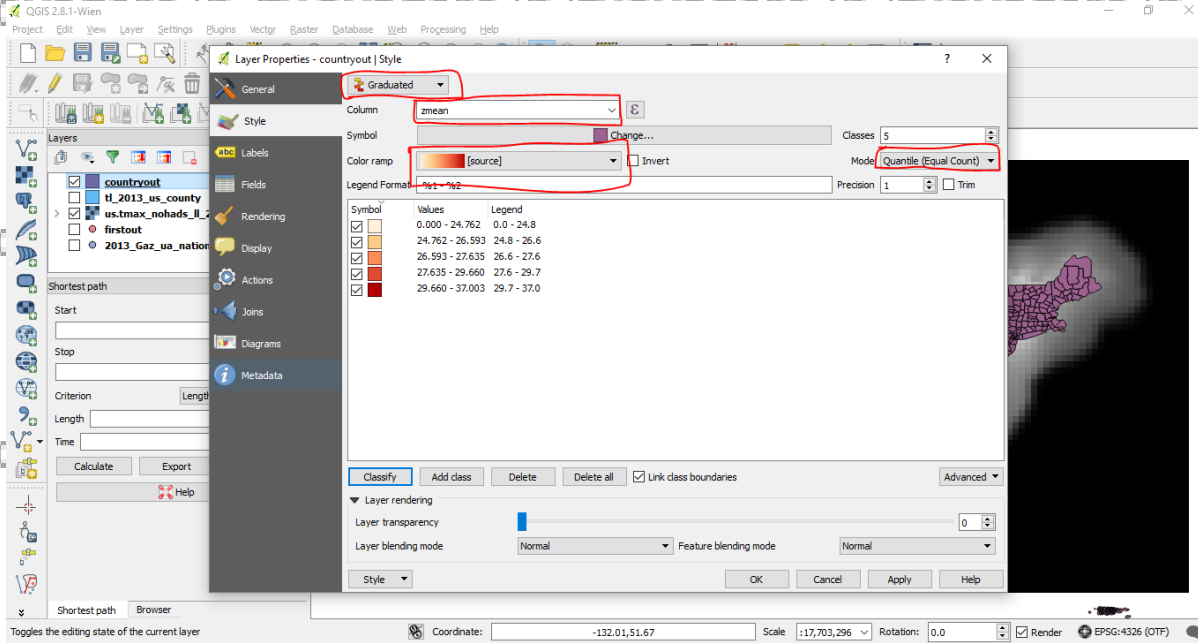
Once the operation is done click on identifier tool and select feature from layer. It will display the results.



Now we can also style this output, for that go to Layer's properties.

In style panel select "Graduated", in Column select "zmean", select "Quantile(Equal Count)" in mode, in select one ramp and click on "classify".

Click on "OK".



Yes our output is here.

