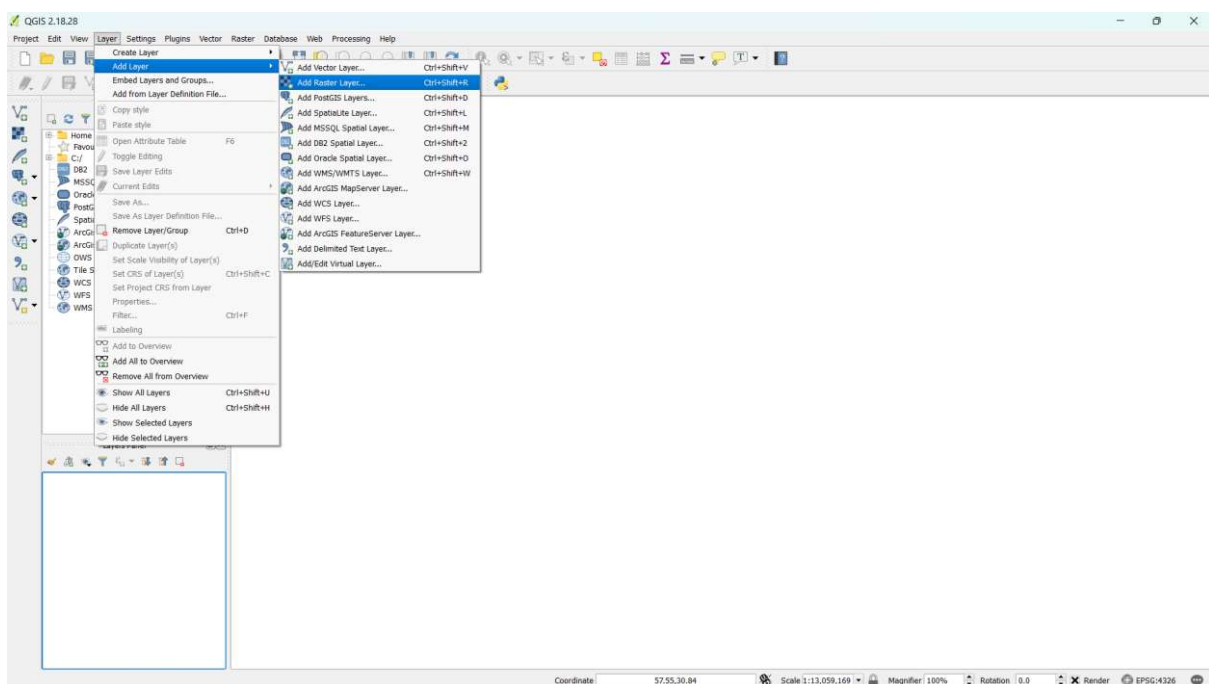


PRACTICAL – 2

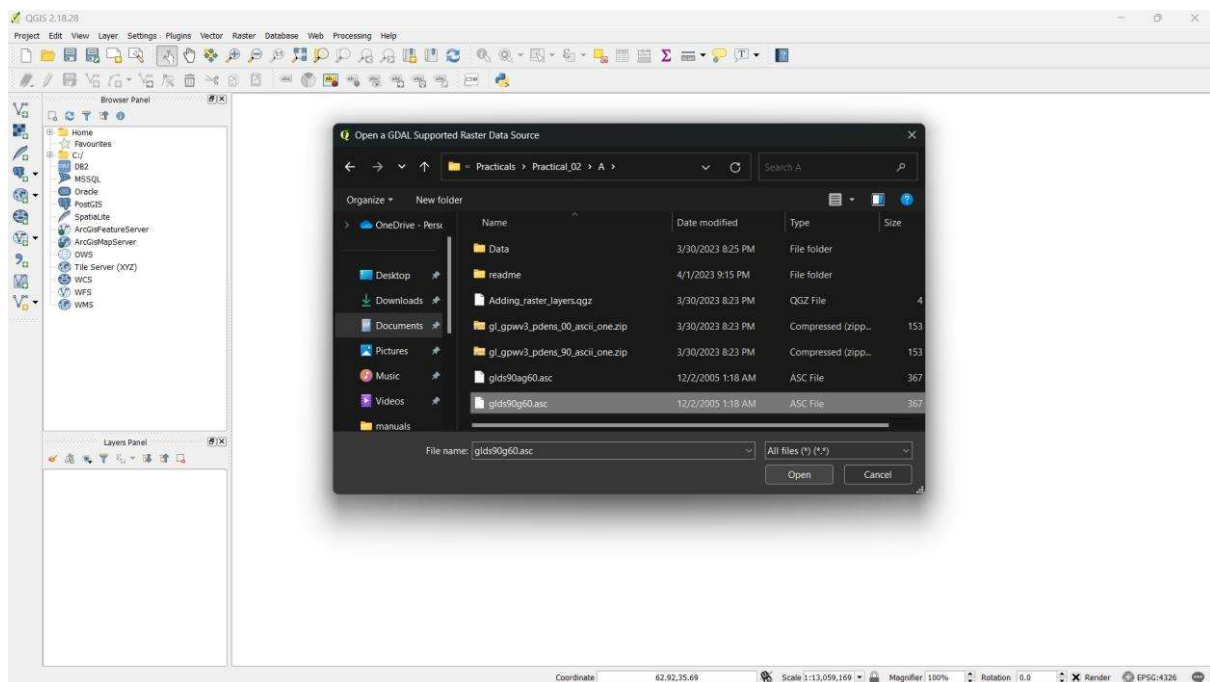
Aim: Exploring and Managing Raster data: Adding raster layers, raster styling and analysis, raster mosaicking and clipping.

Steps:

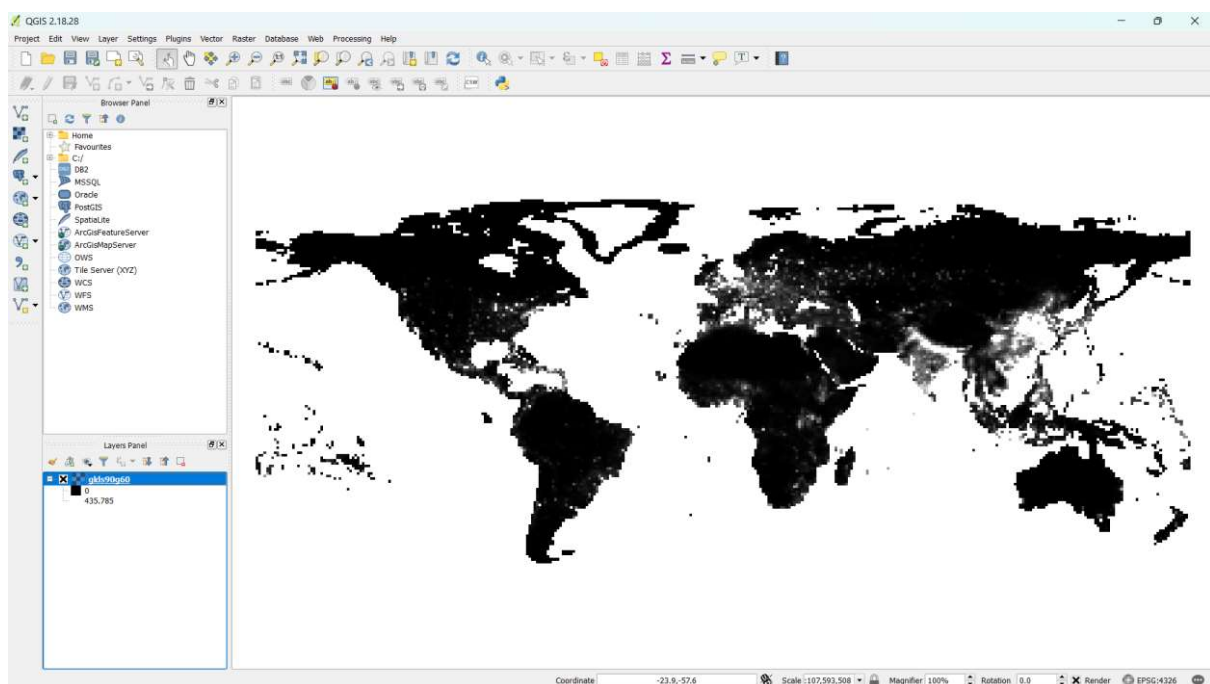
Step 1 – Open QGIS 2.18 Desktop and Create a new project. In Layer tab click Add Layer and select Add Raster Layer.



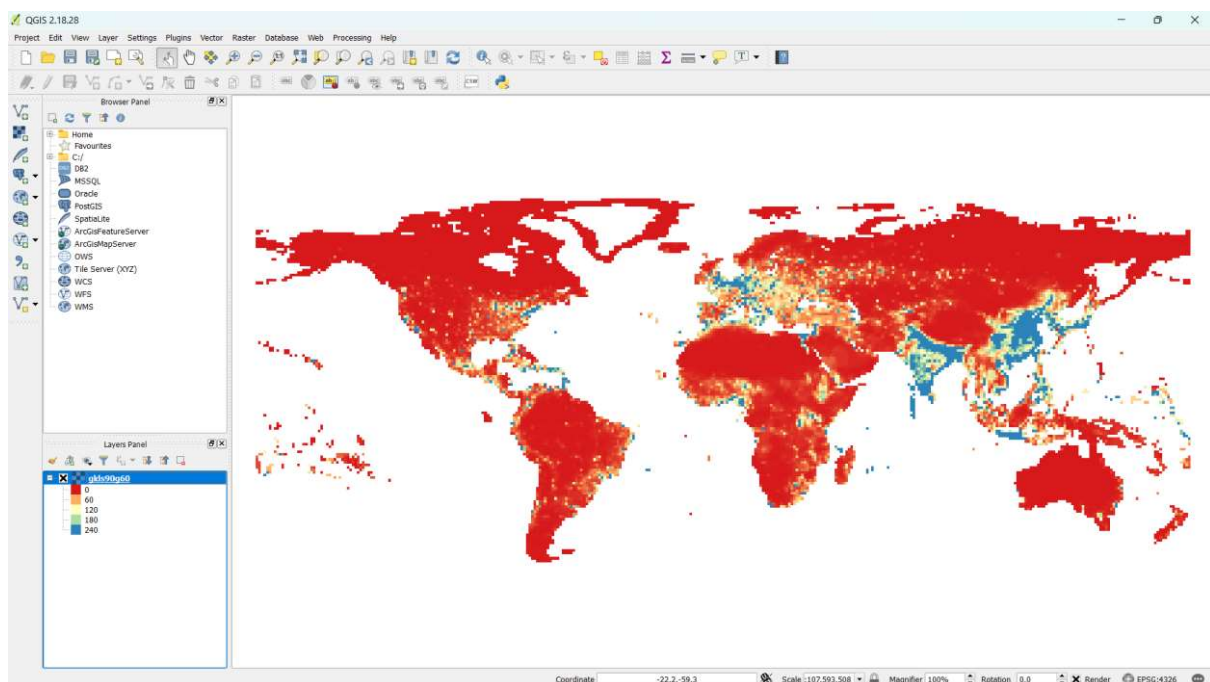
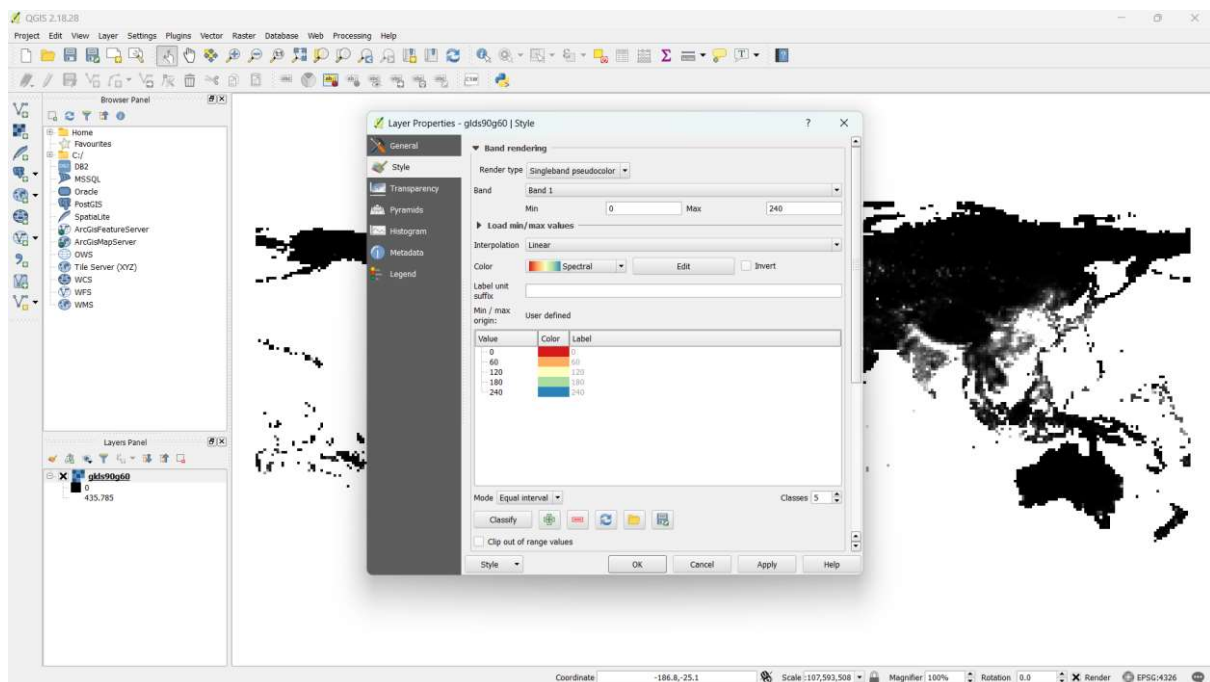
Step 2 – Select the file you want and then click Open.



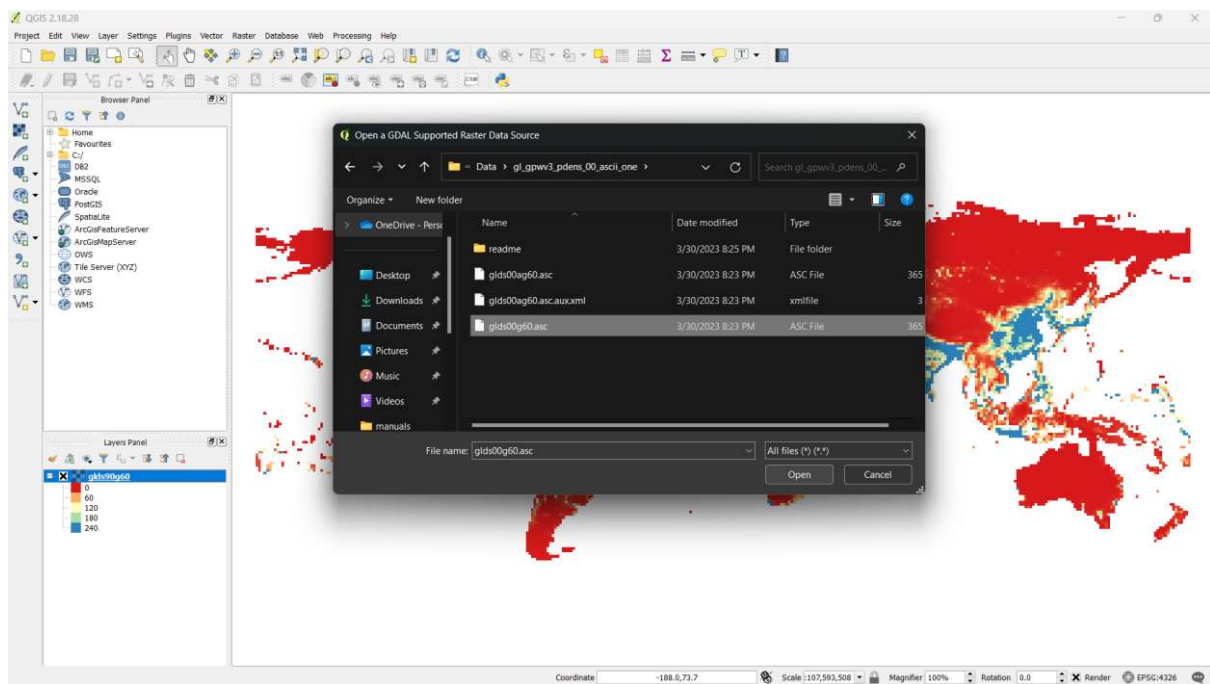
New Layer is added.



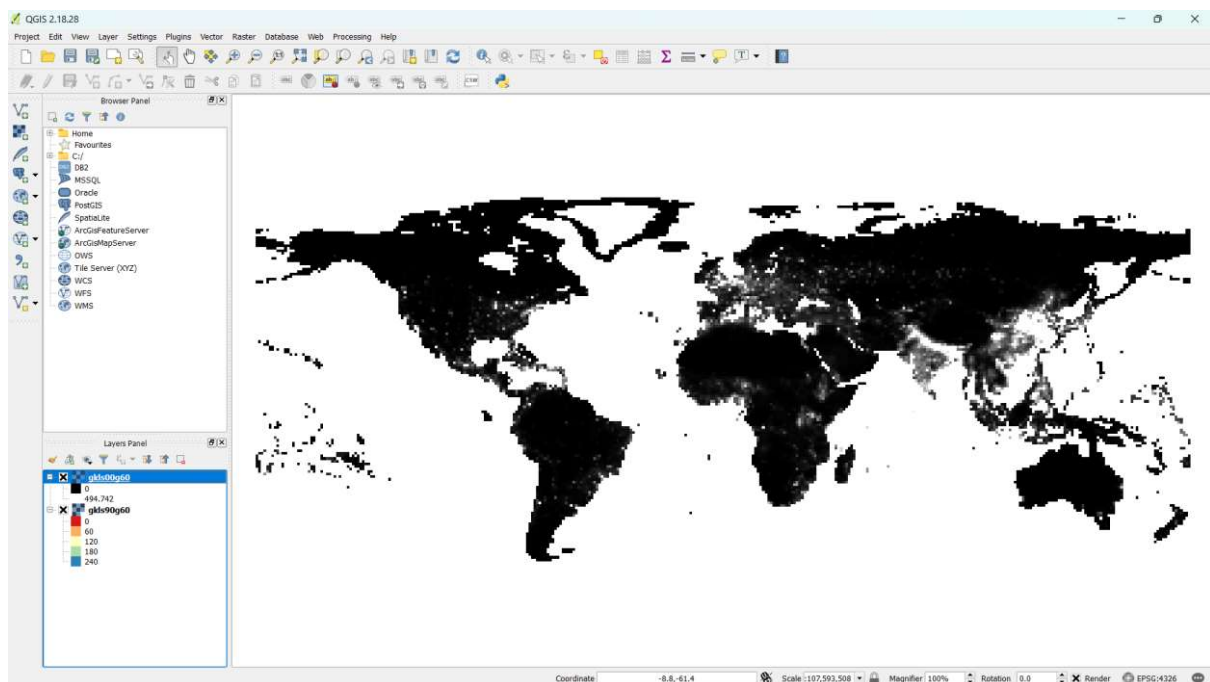
Step 3 – Open Layer Properties, set them as following and then click apply.



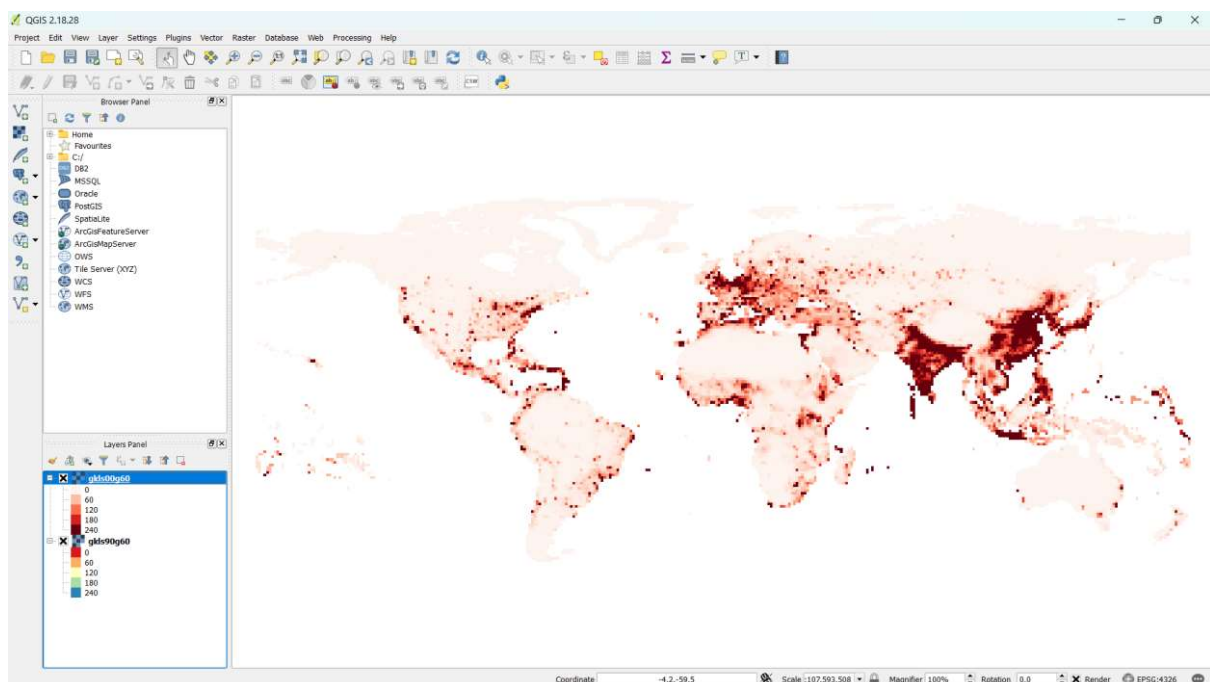
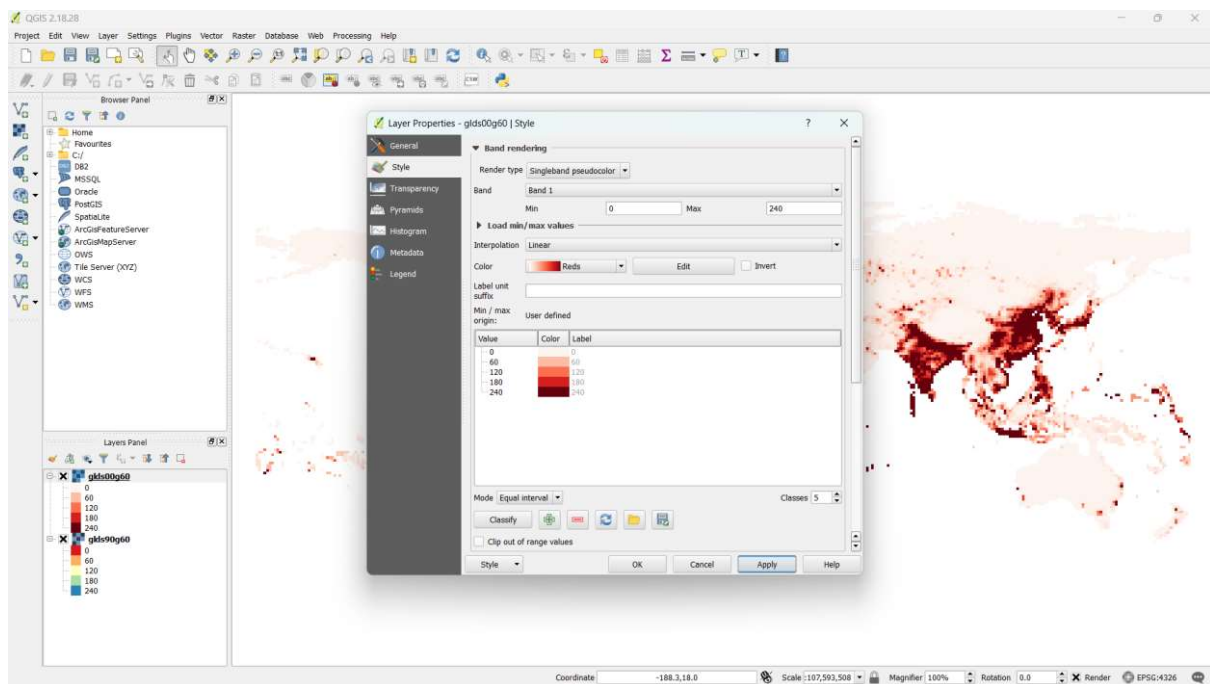
Step 4 – Add another layer using the pervious method.



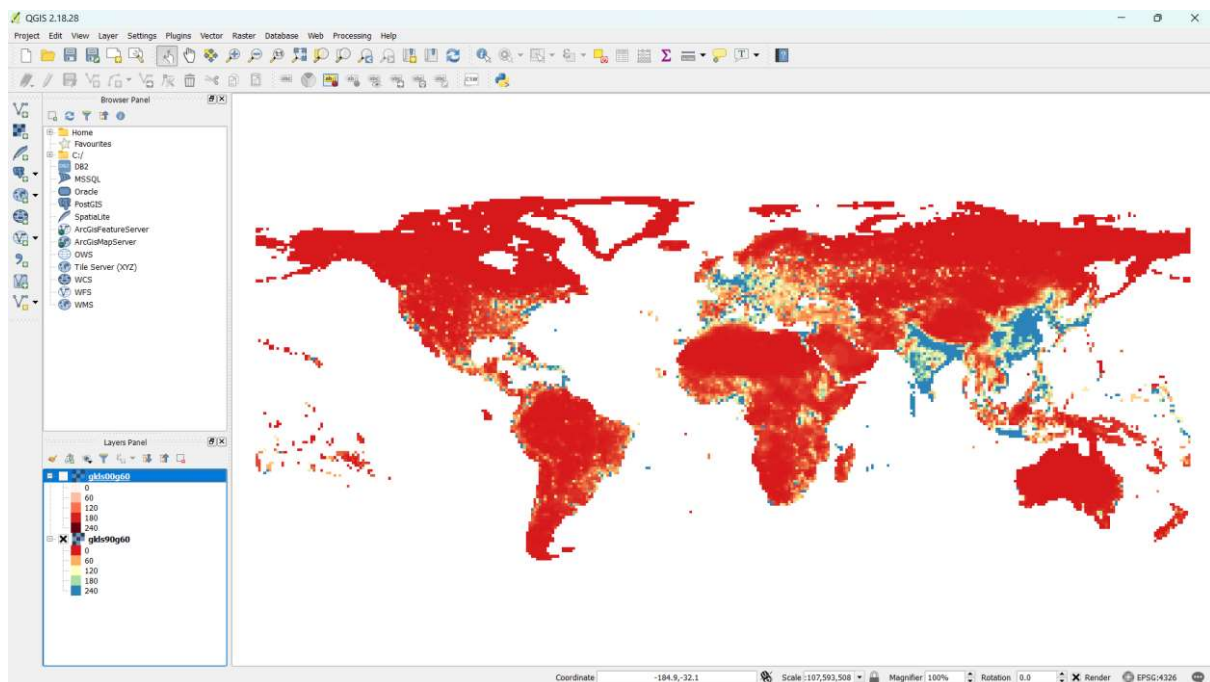
Another layer is added.



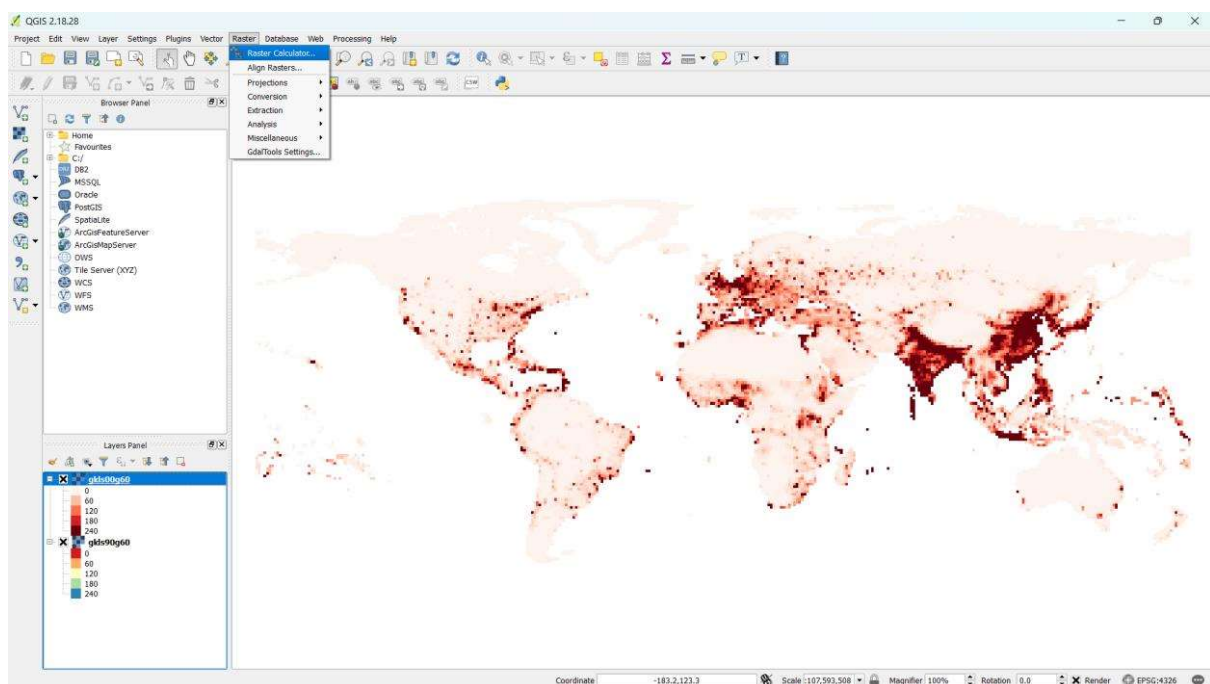
Step 5 – Set its properties as shown below.

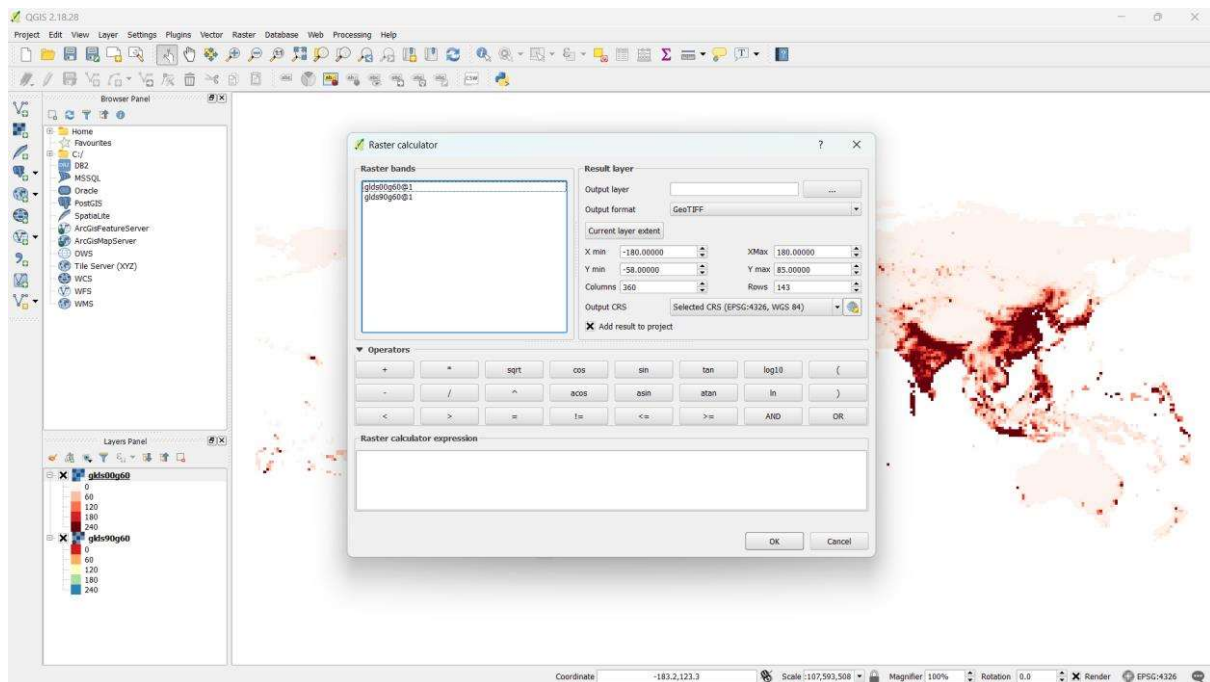


You can untick a layer to hide it.

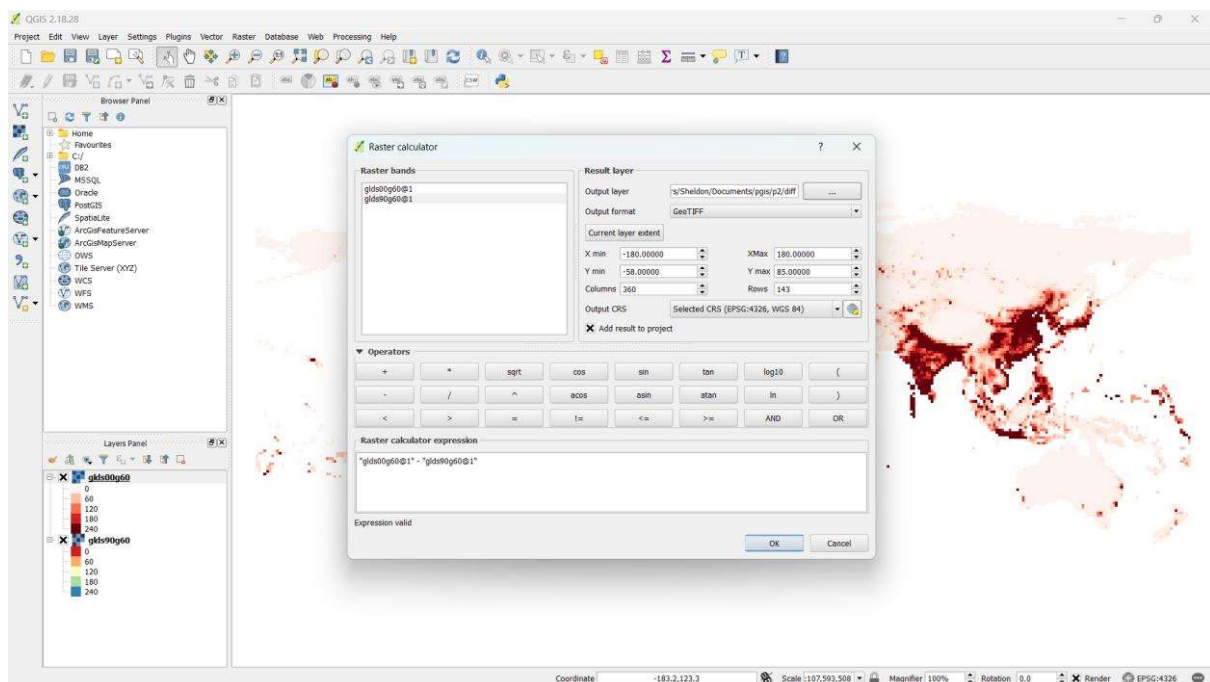


Step 6 – In the Raster tab click Raster Calculator.

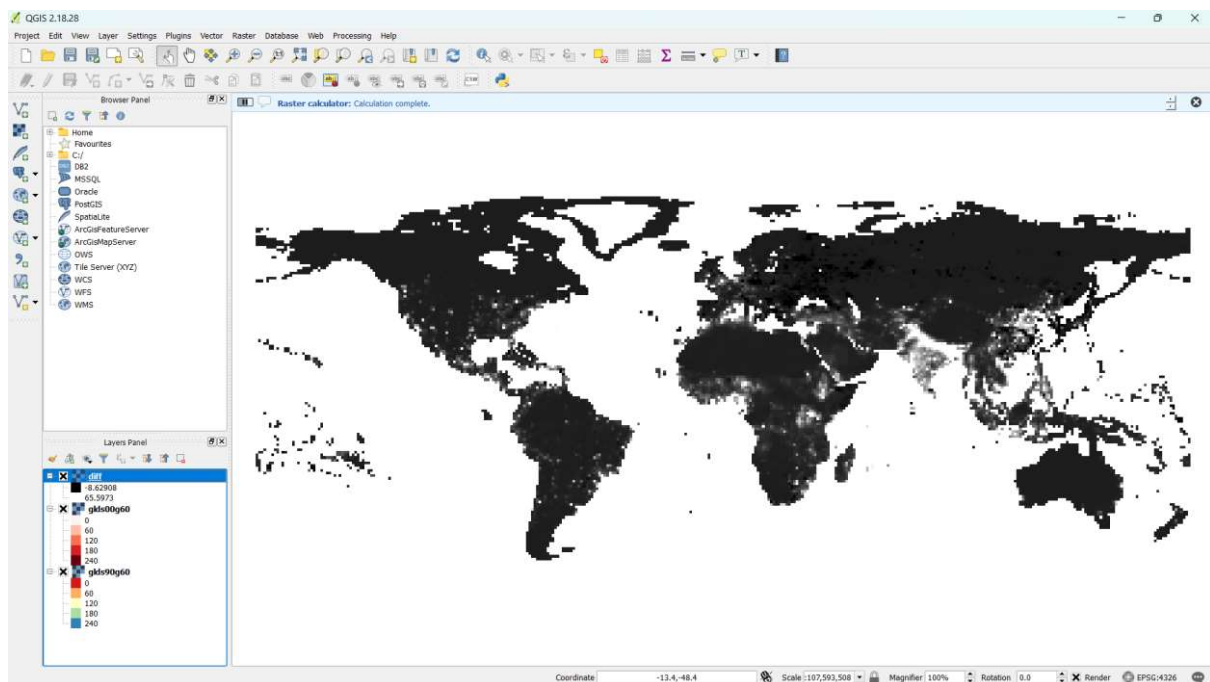




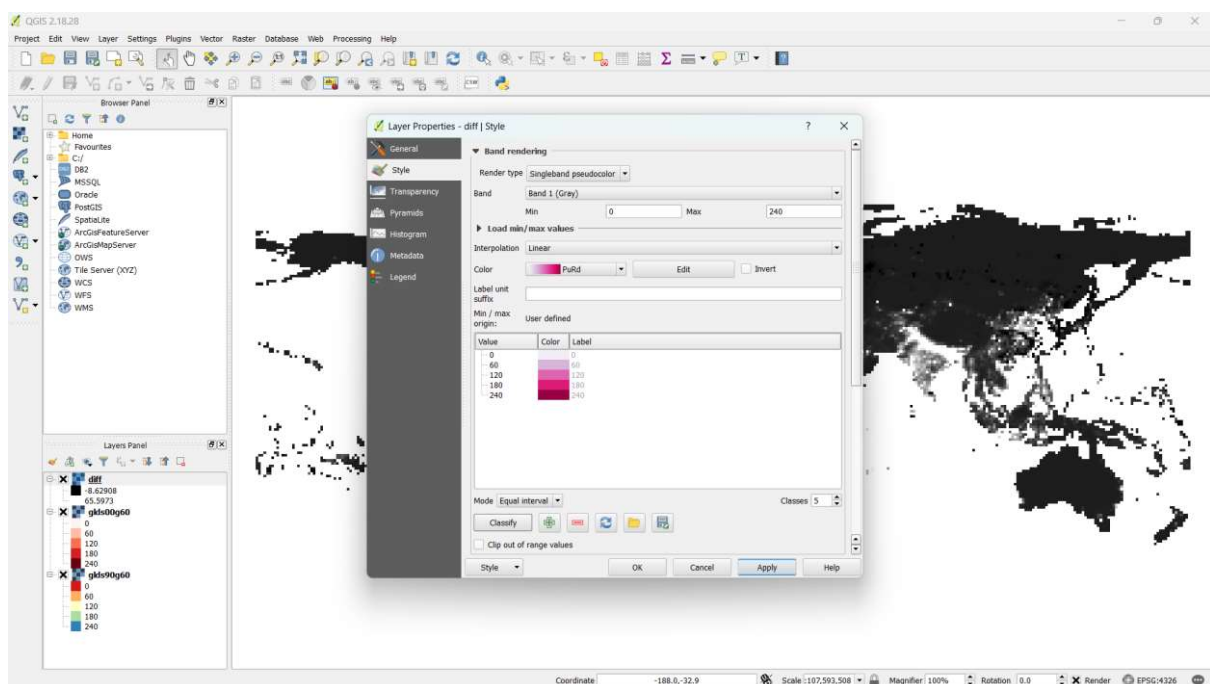
Step 7 – Select the output layer then insert your raster calculator expression and then click OK.

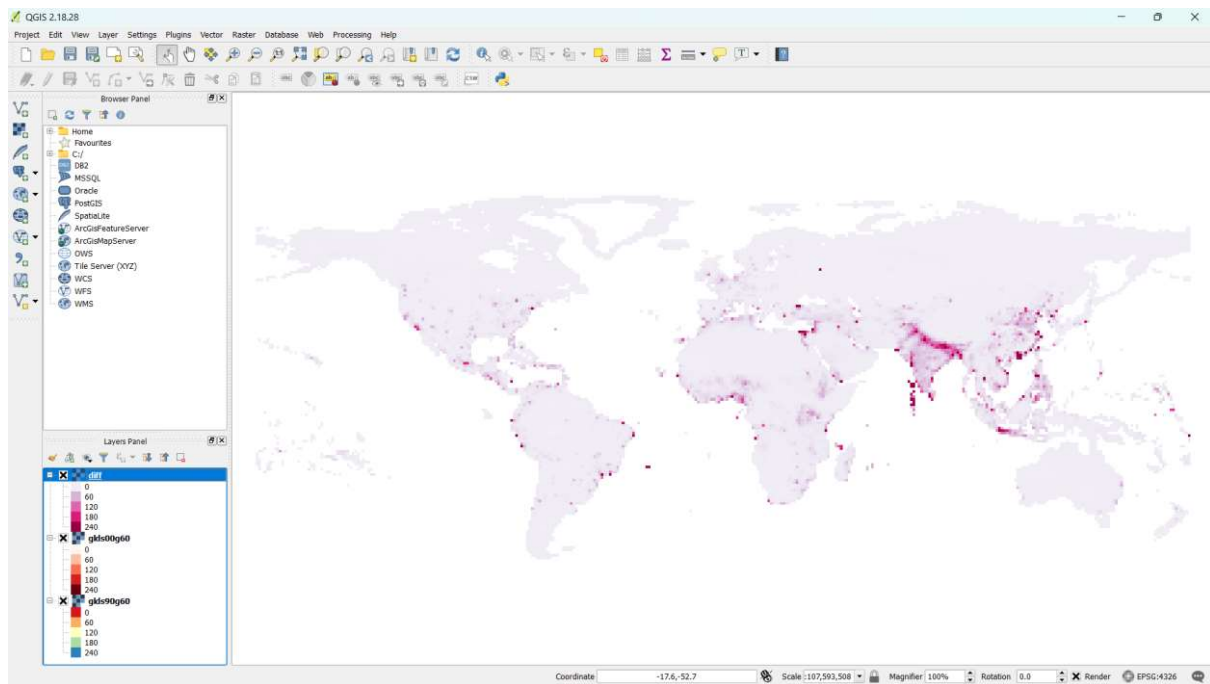


A new layer gets created.

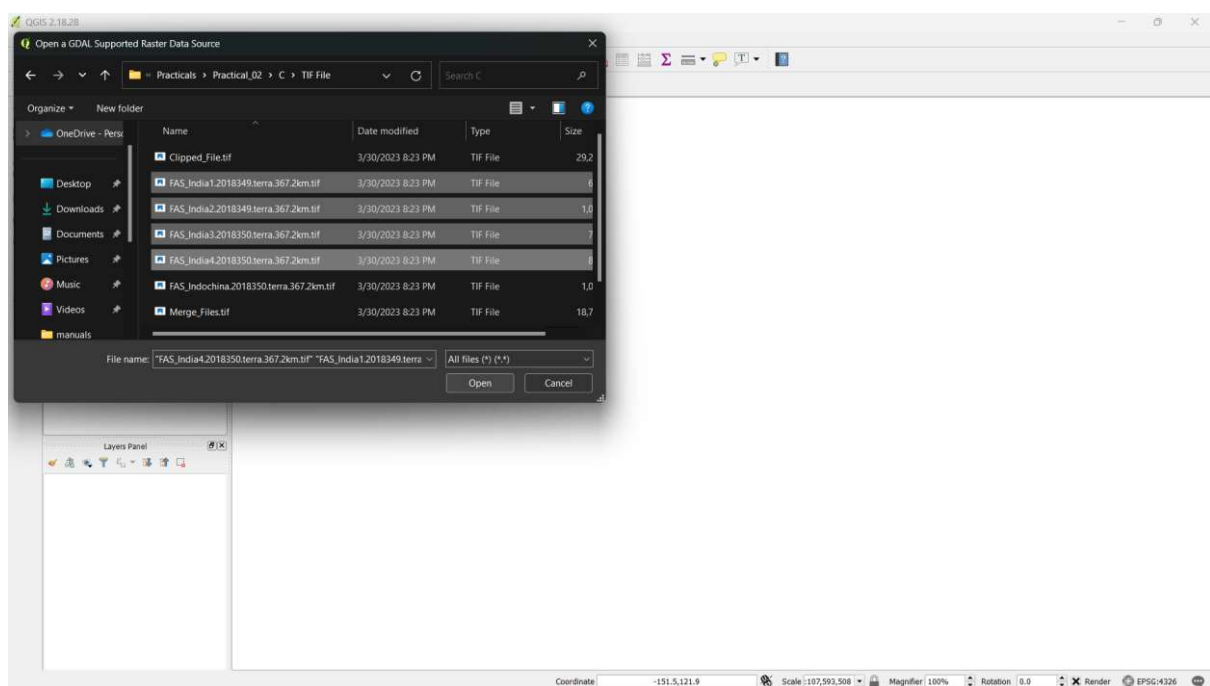


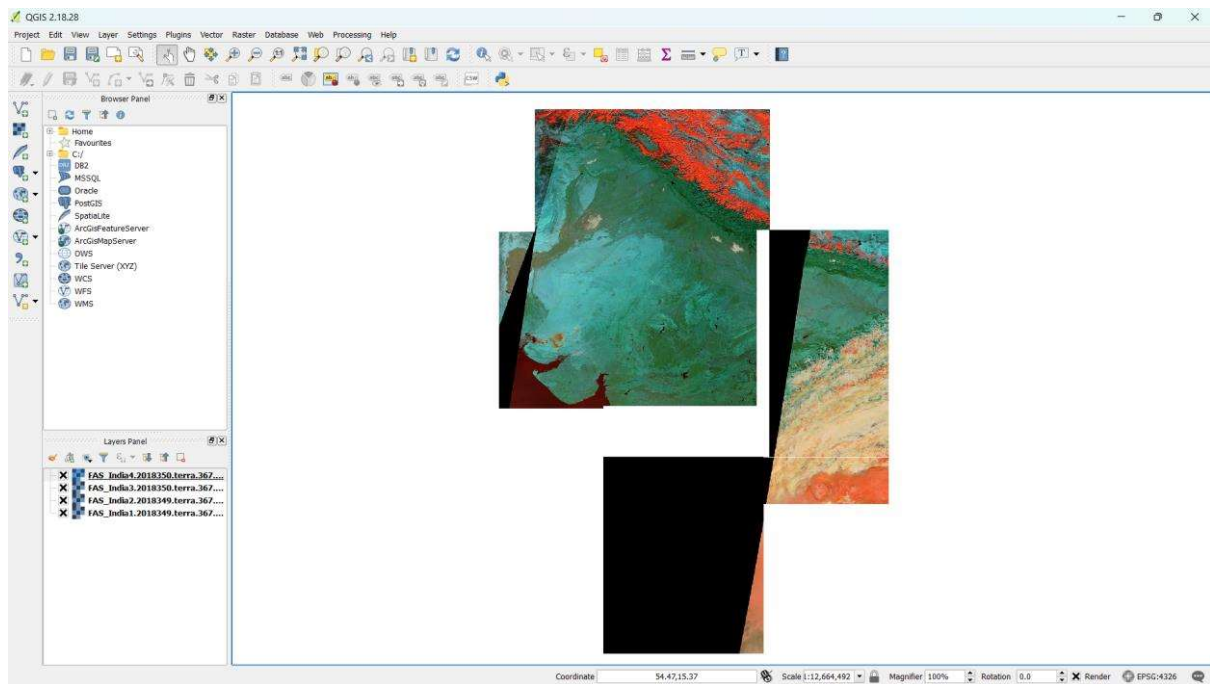
Step 8 – Set the properties as shown below and then click apply.



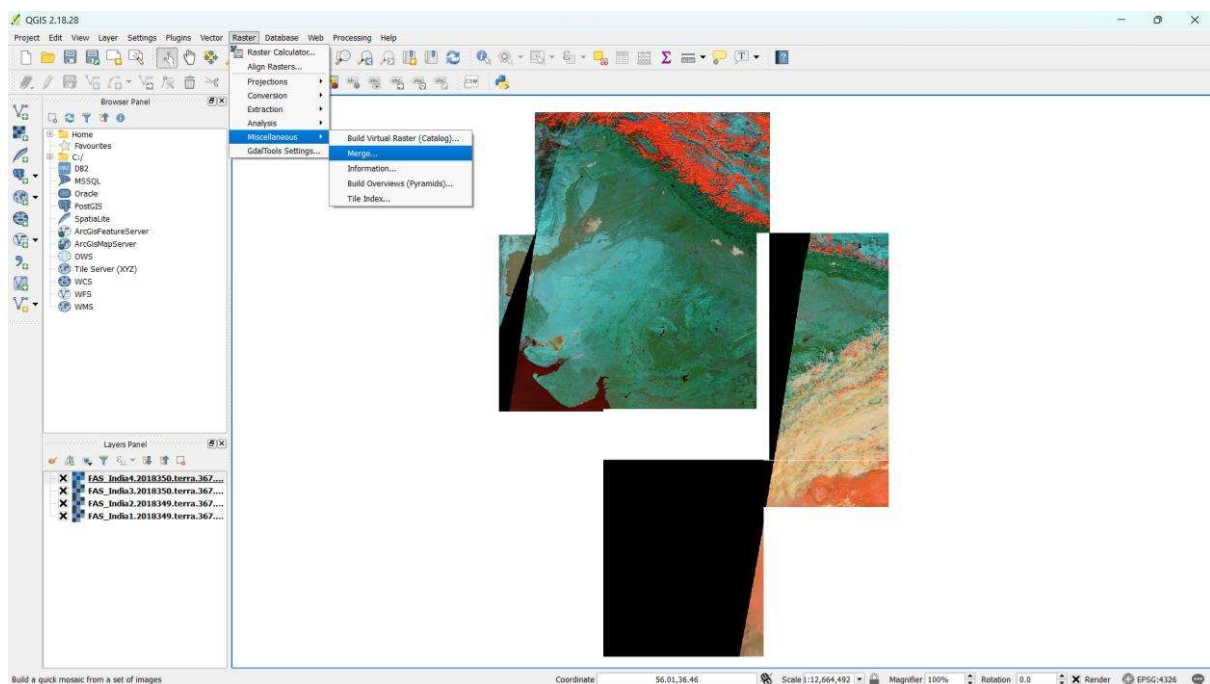


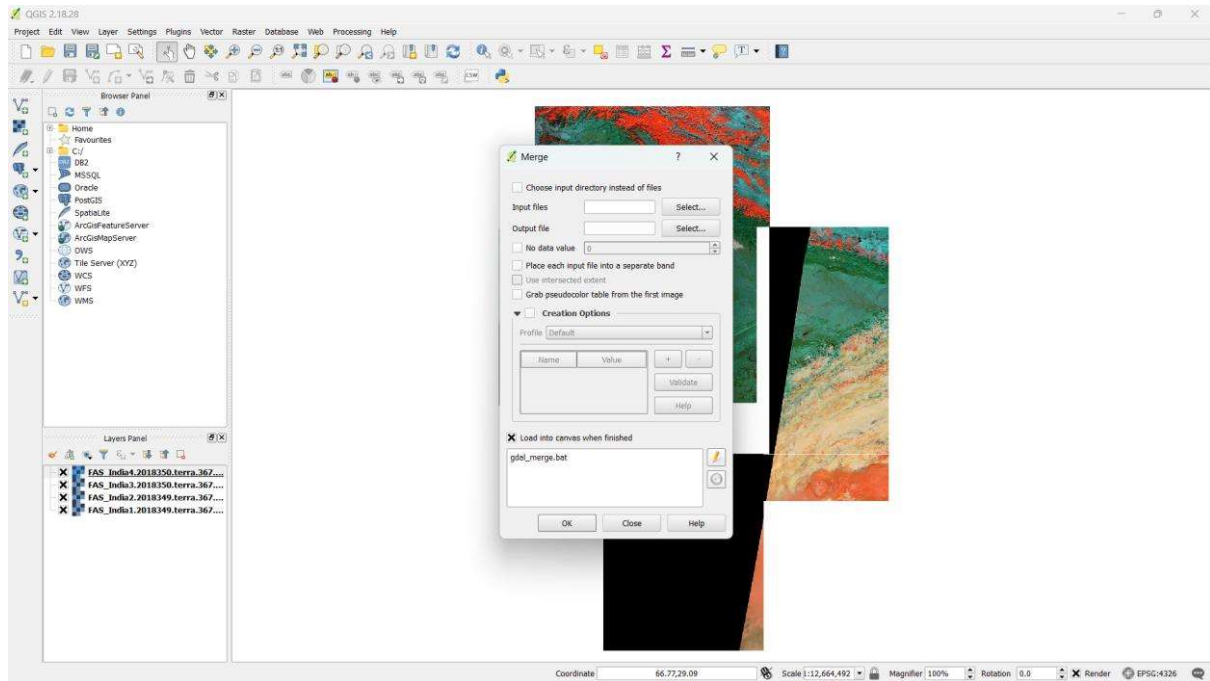
Step 9 – For Raster Clipping create a New Project. And add these 4 .tif files.



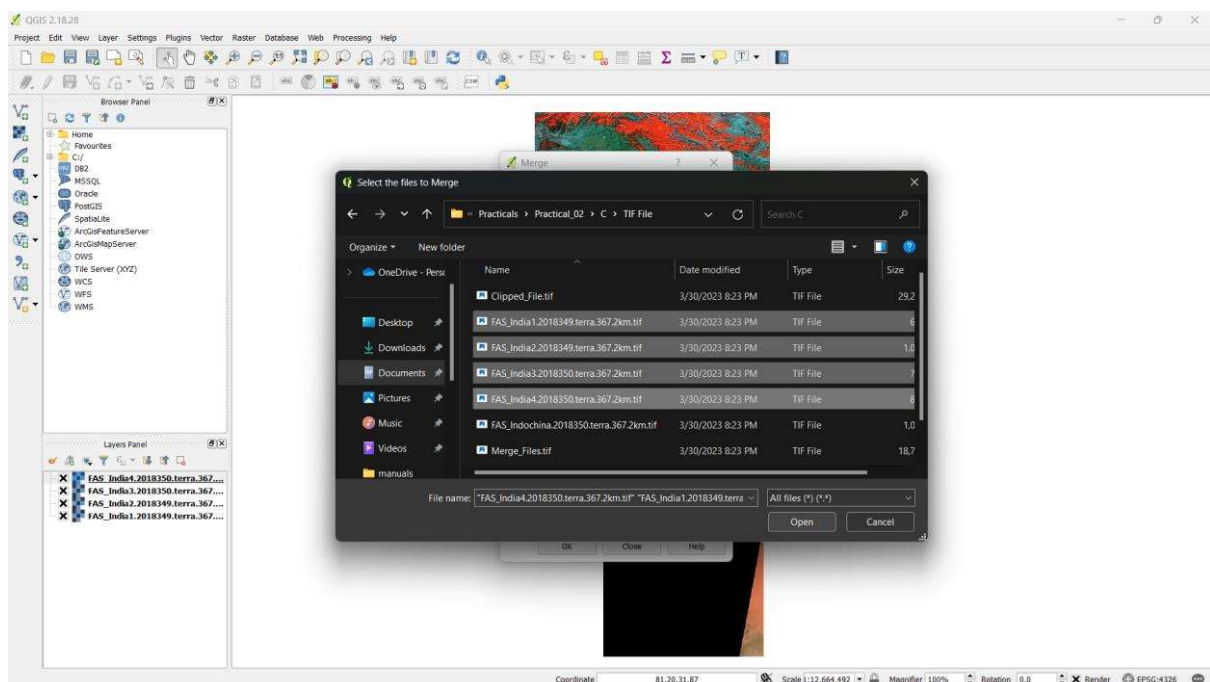


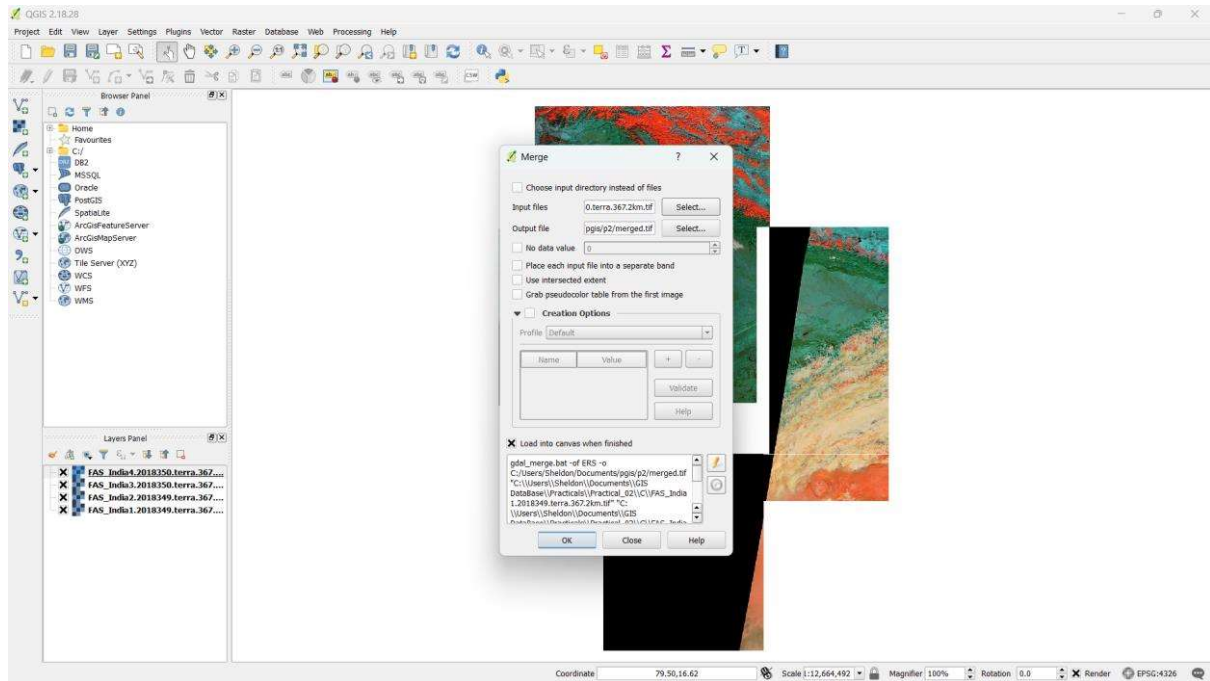
Step 10 – In Raster tab click on miscellaneous and select Merge.



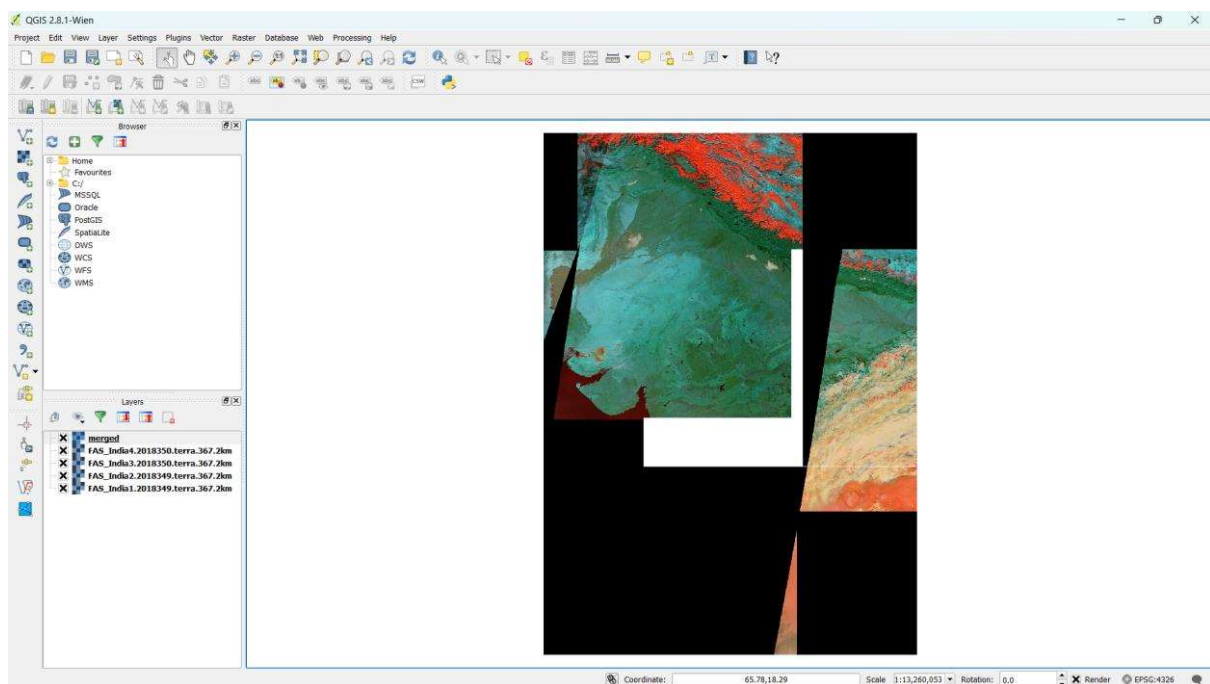


Step 11 – Select the input and output files and then click OK.

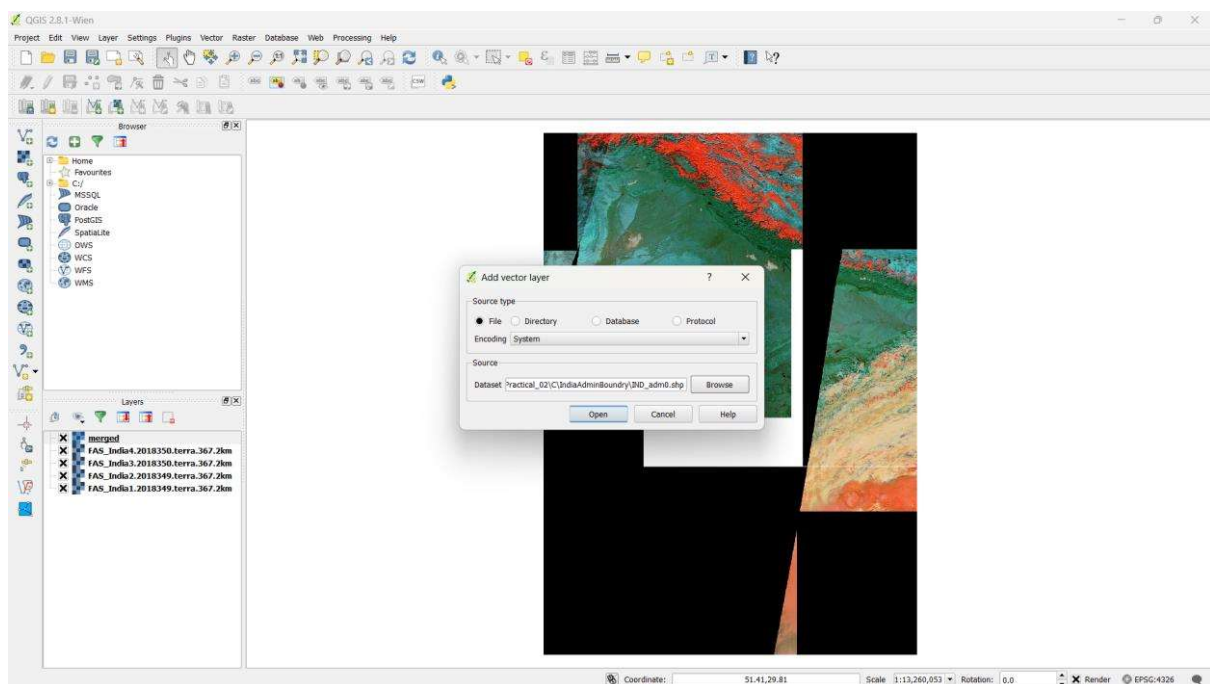
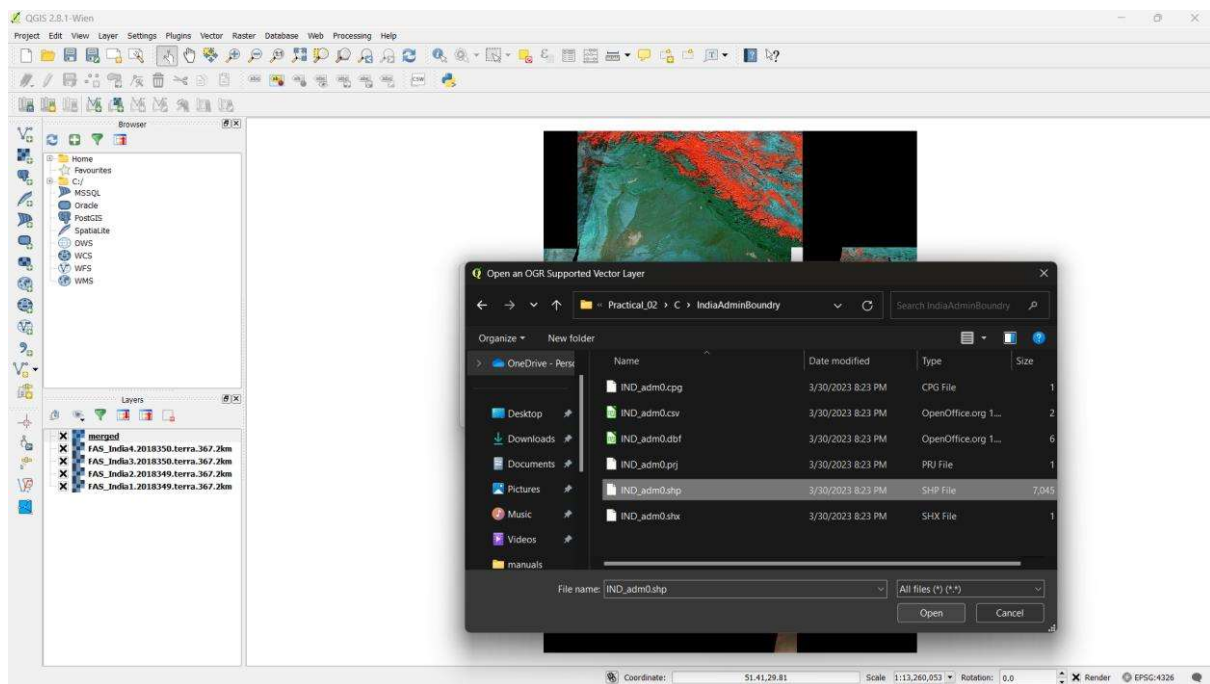


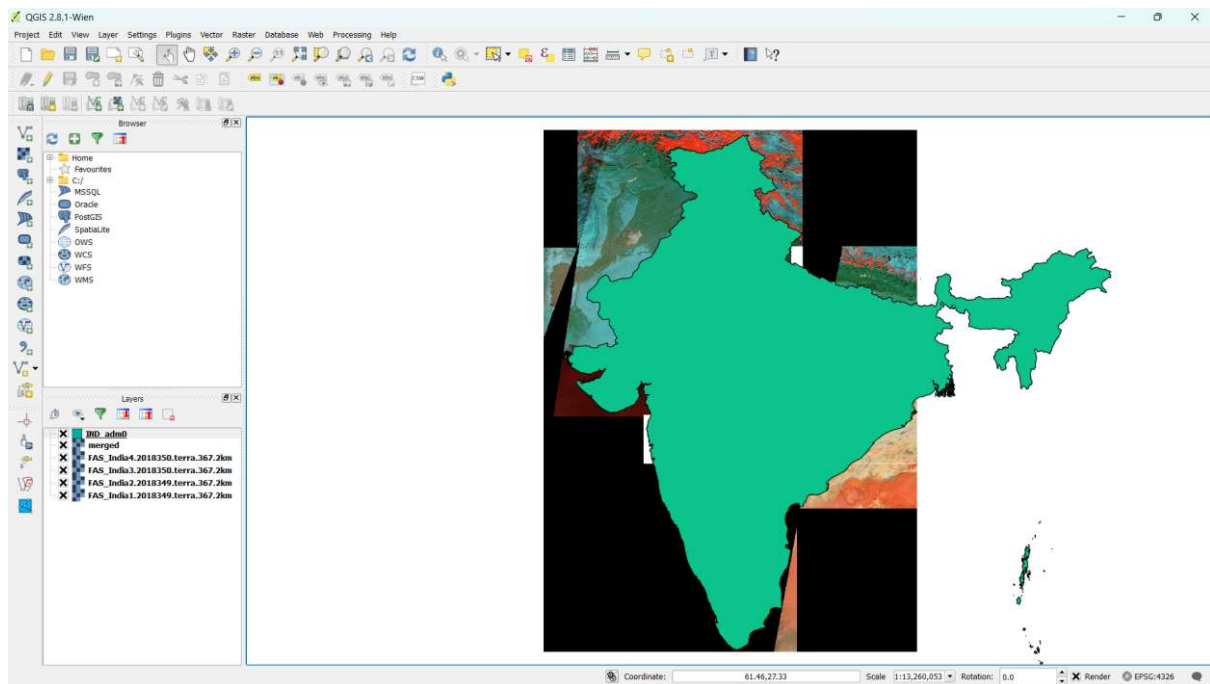


New merged layer is added.

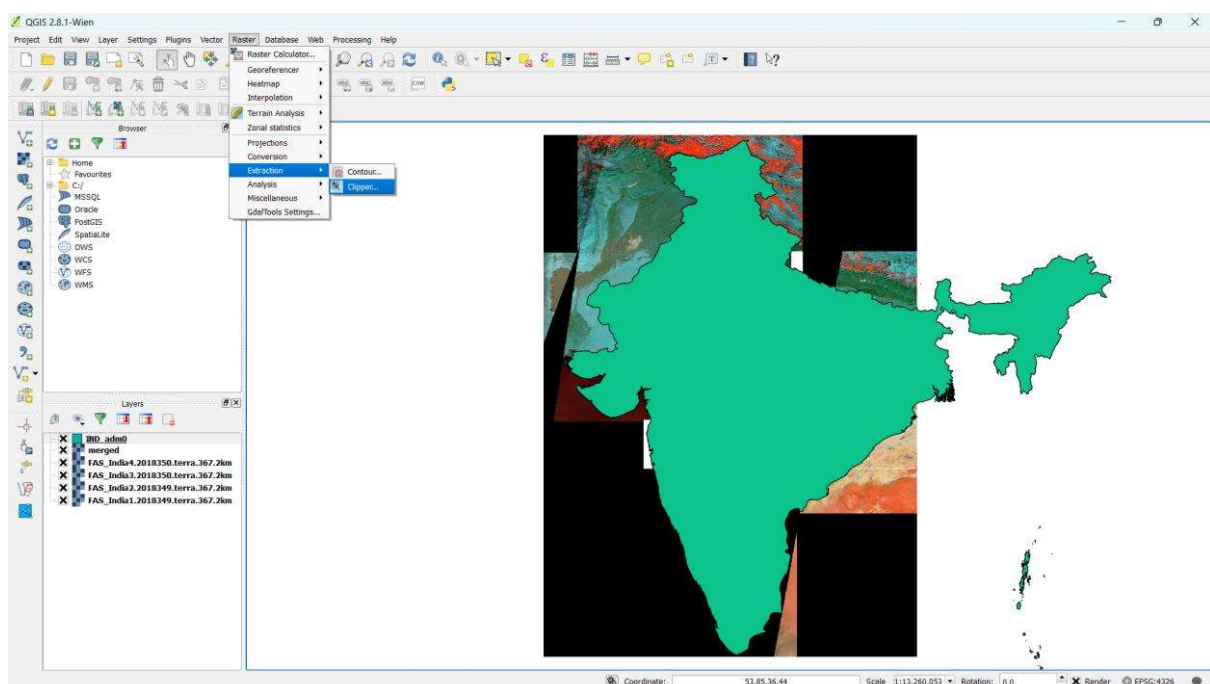


Step 12 – Now add a new vector layer as shown below.





Step 13 – In Raster Tab click on Extraction and click on Clipper.



Step 14 – Select the input and output layer, select clip type as mask select the mask you want to clip and then click OK.

