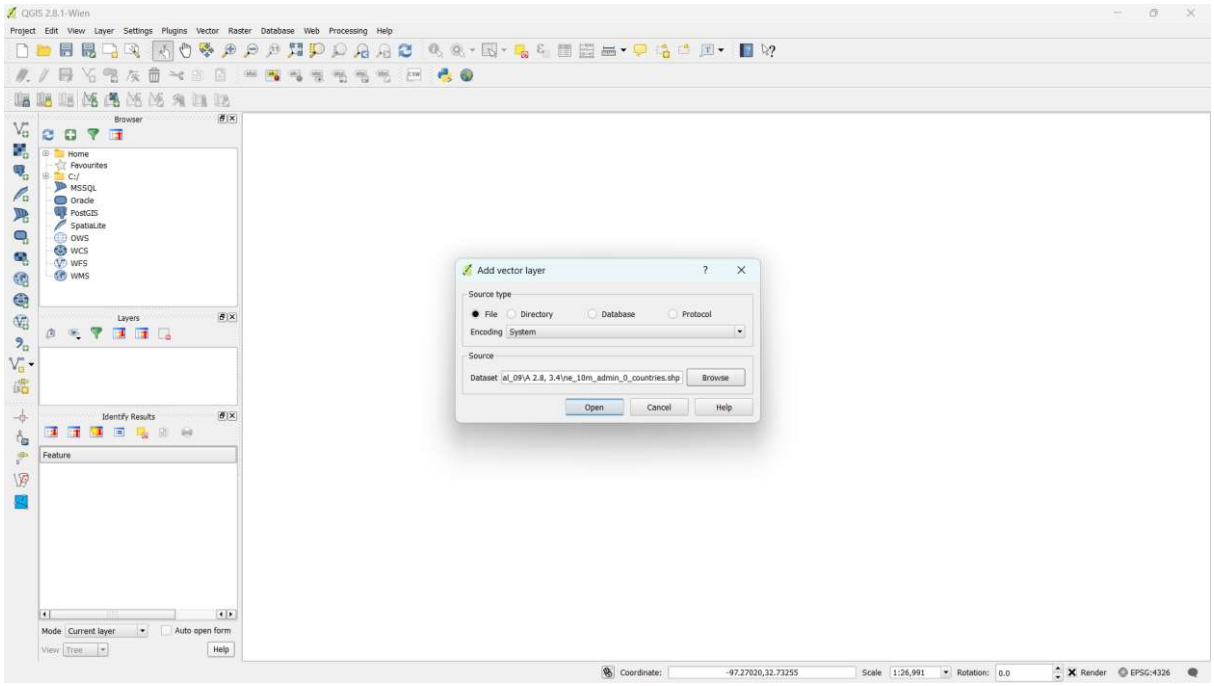
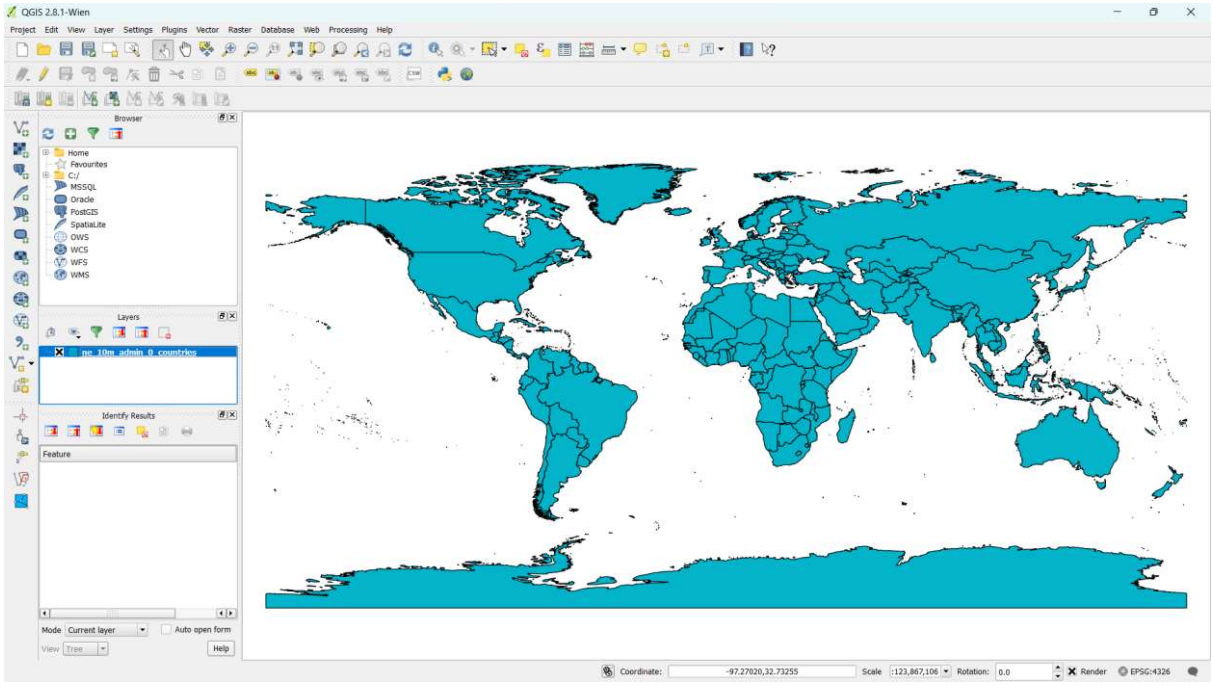
PRACTICAL – 9

Aim: Advance GIS Operations 2: Batch Processing using Processing Framework, Automating Complex Workflows using Processing Modeler and Automating Map Creation with Print Composer Atlas.

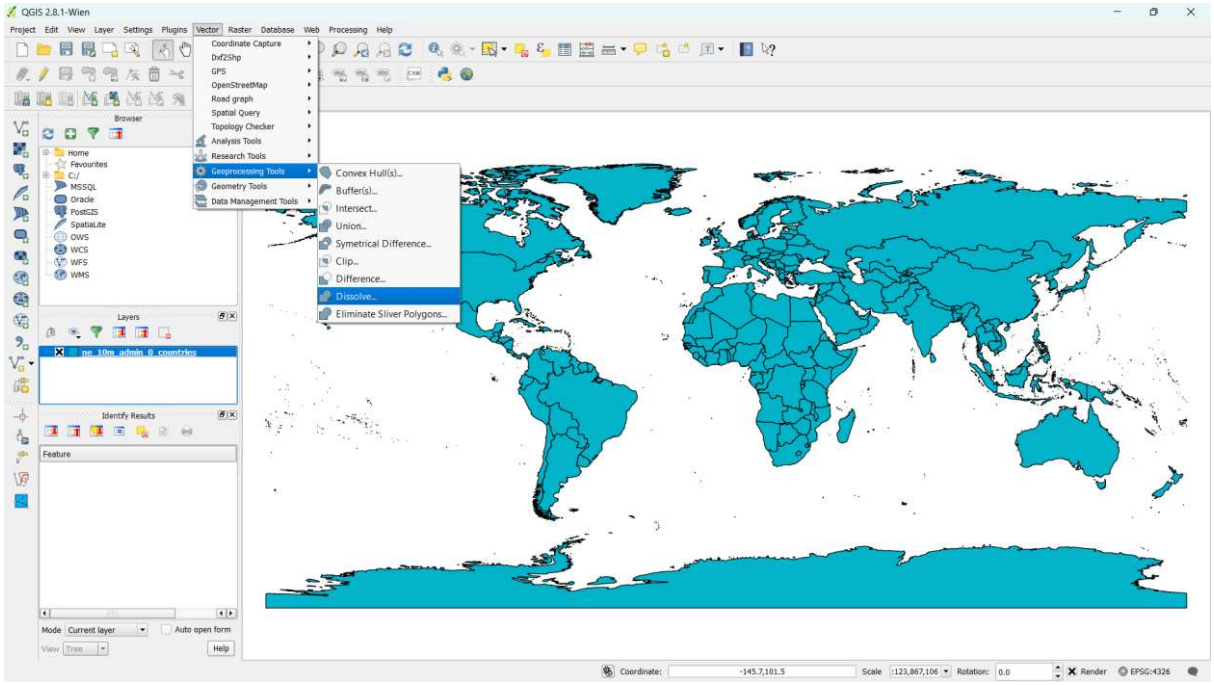
Steps:

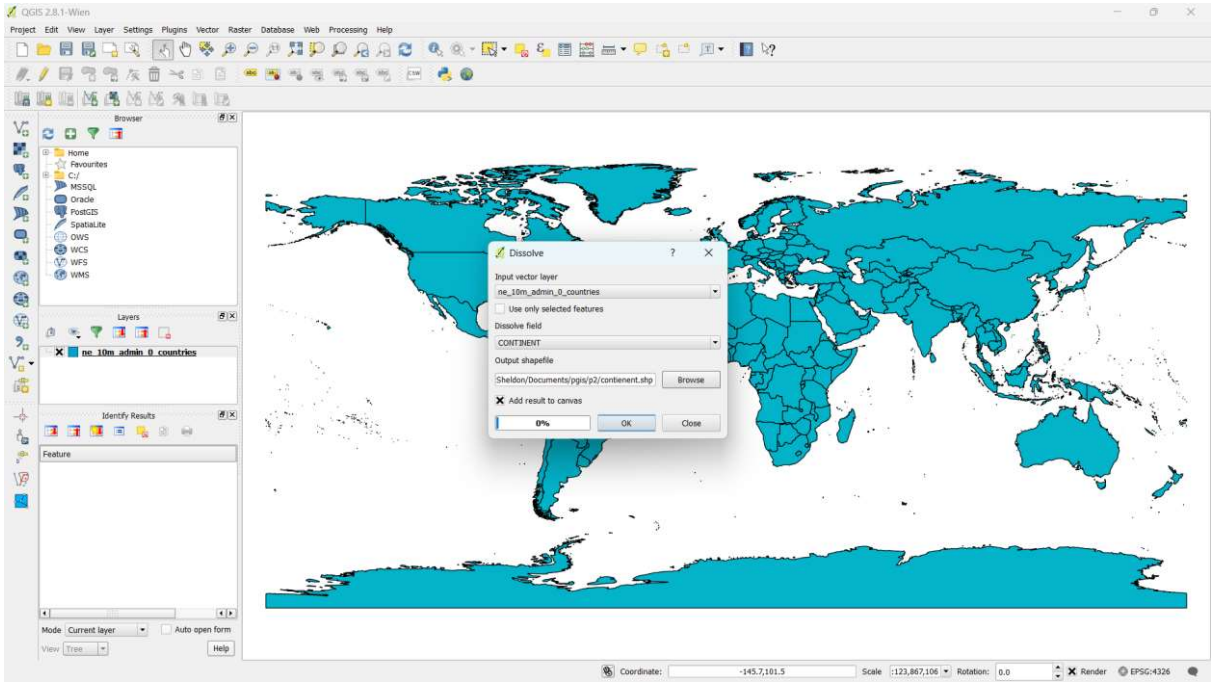
Step 1 – Add the following vector layer.

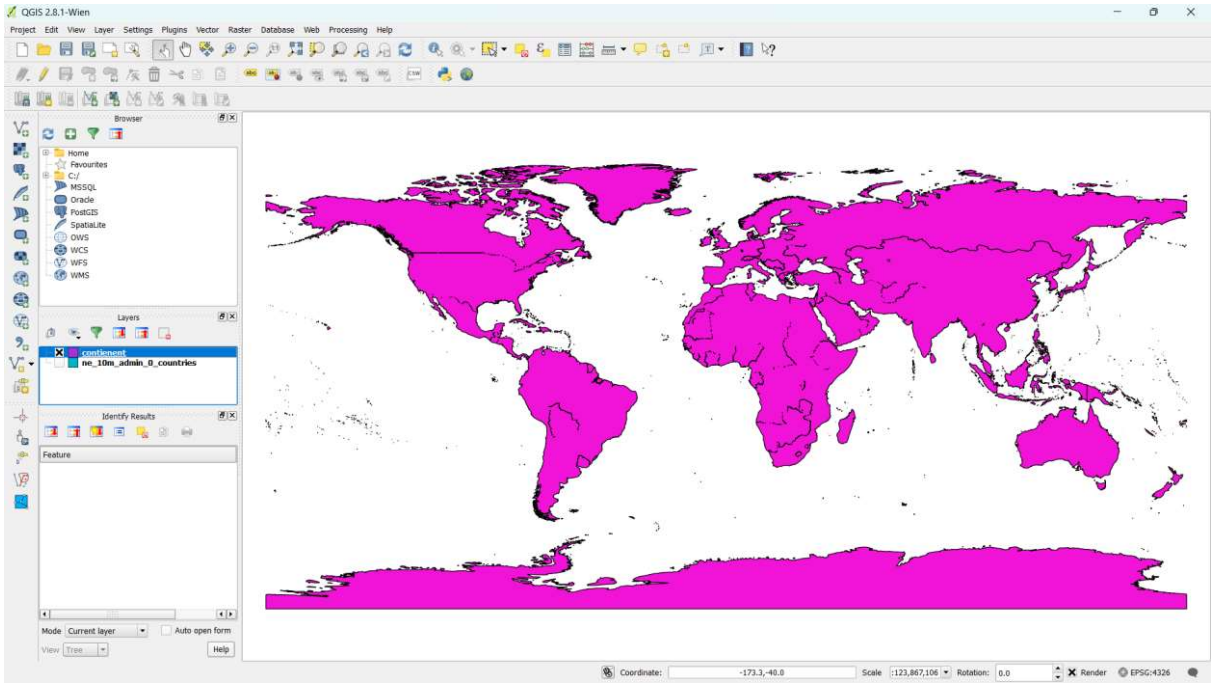




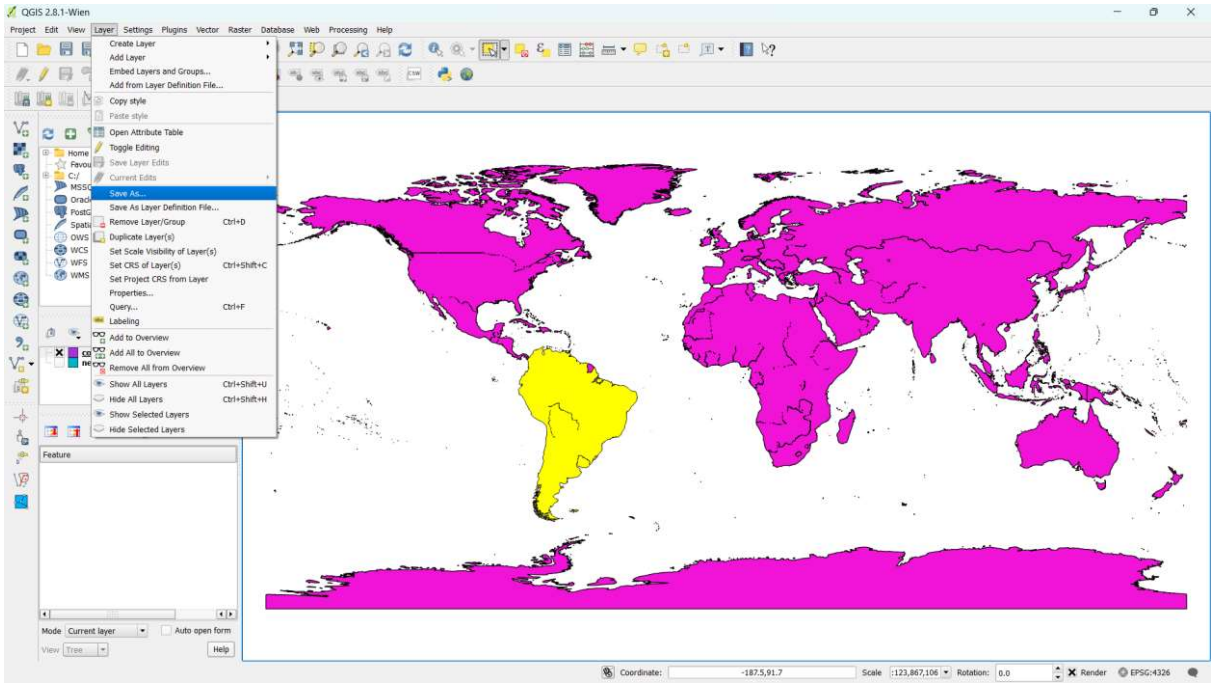
Step 2 – Vector > Geoprocessing Tools > Dissolve. Set the following attributes and click OK.

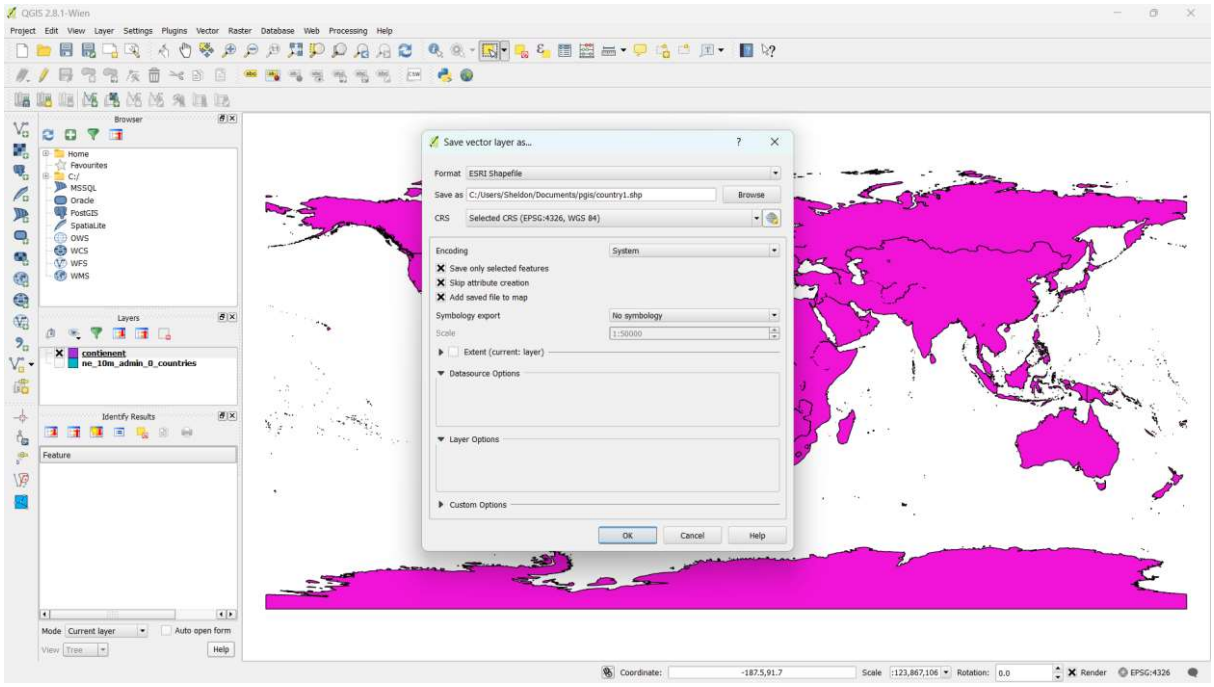


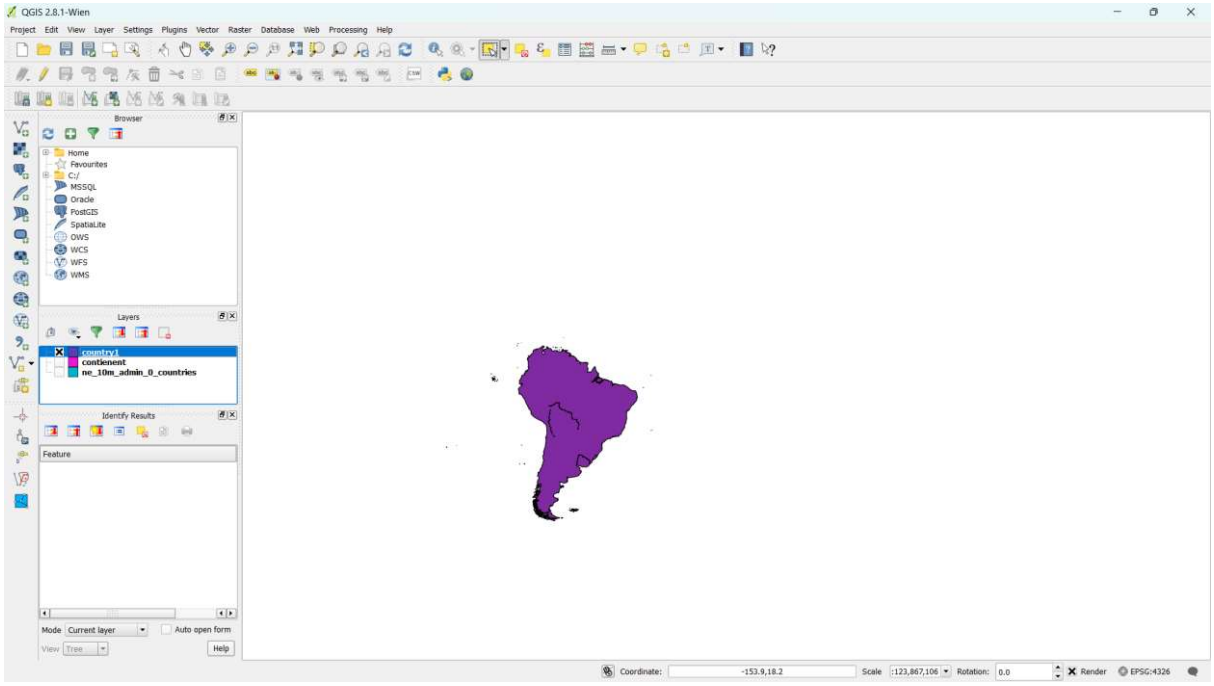

QGIS 2.8.1-Wien
Dissolve
Input vector layer
ne_10m_admin_0_countries
Use only selected features
Dissolve field
CONTINENT
Output shapefile
Sheldon/Documents/pgis/p2/continent.shp
Browse
Add result to canvas
0%
OK
Close


QGIS 2.8.1-Wien
continent
ne_10m_admin_0_countries

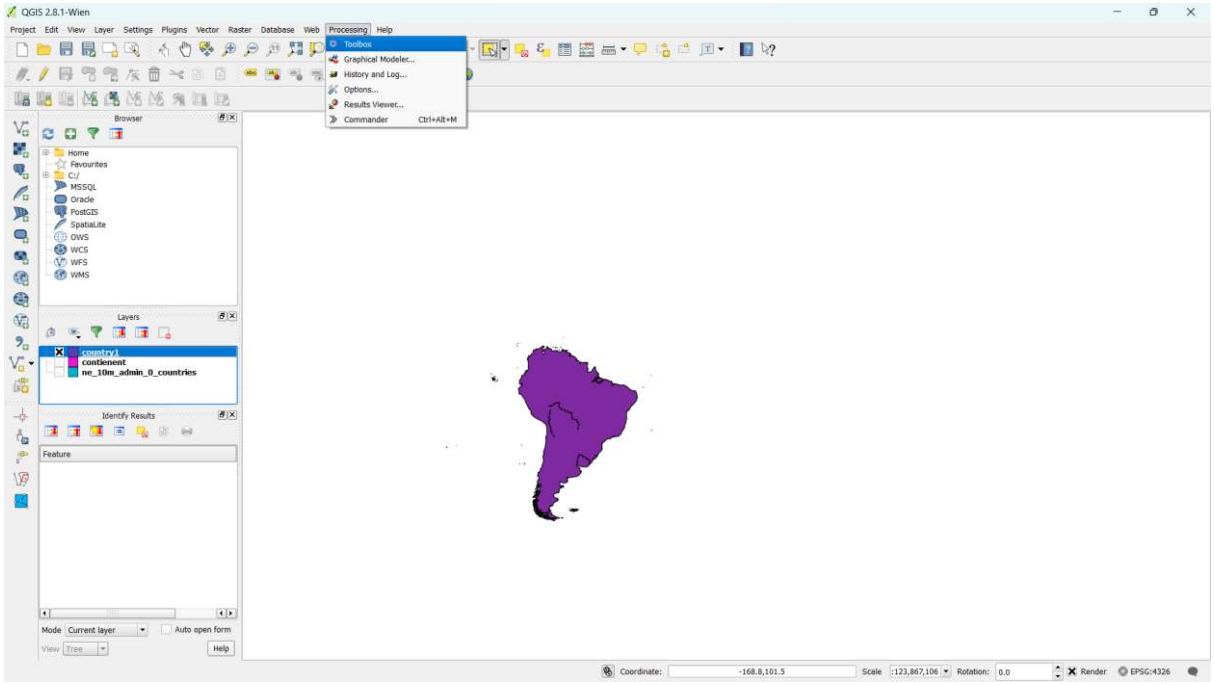
Step 3 – Select a layer. Go to the layers tab and click Save As. Set the following attributes and click OK.

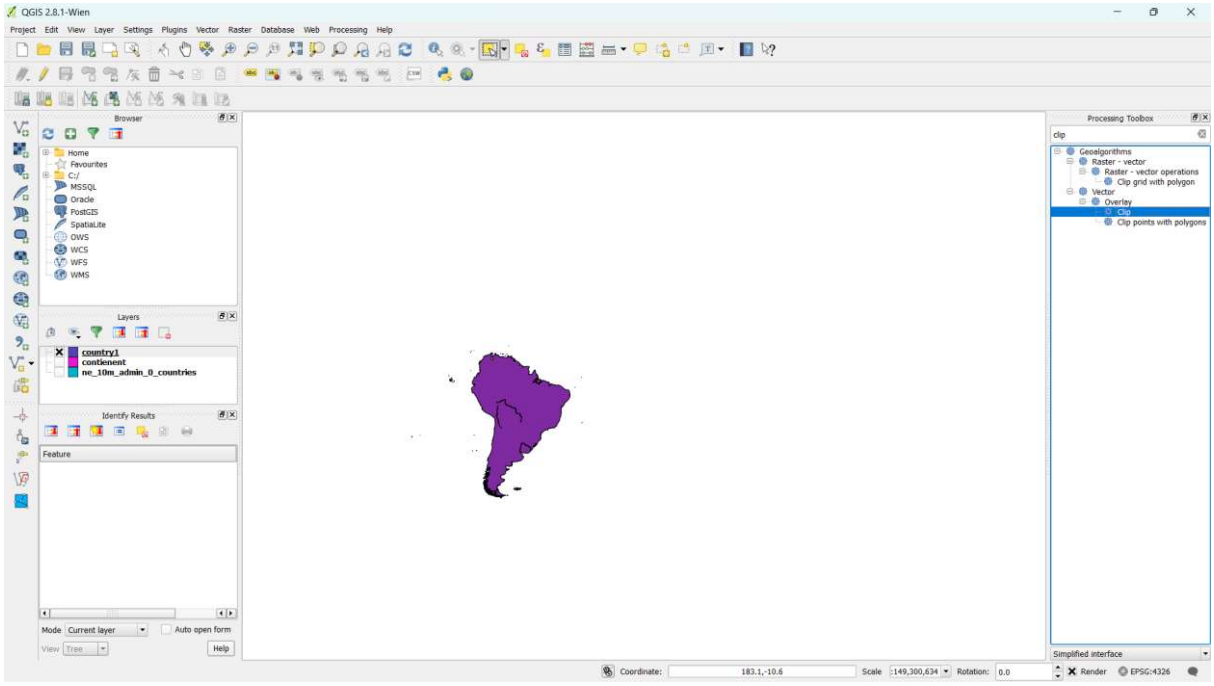




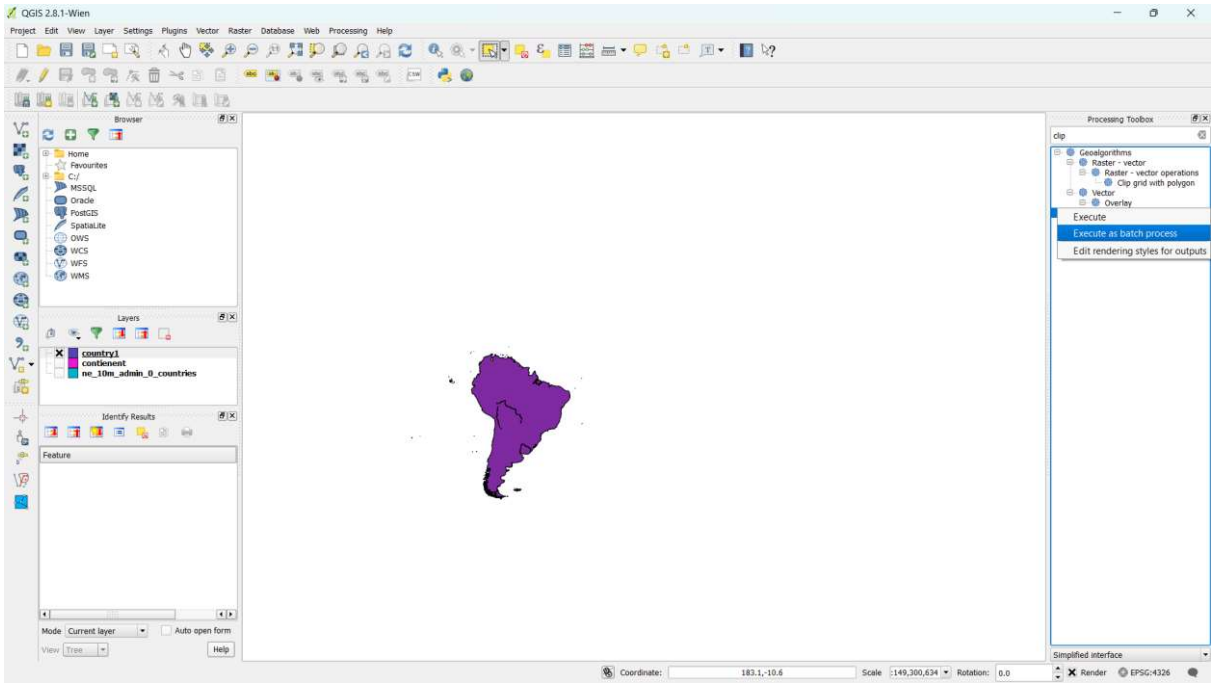


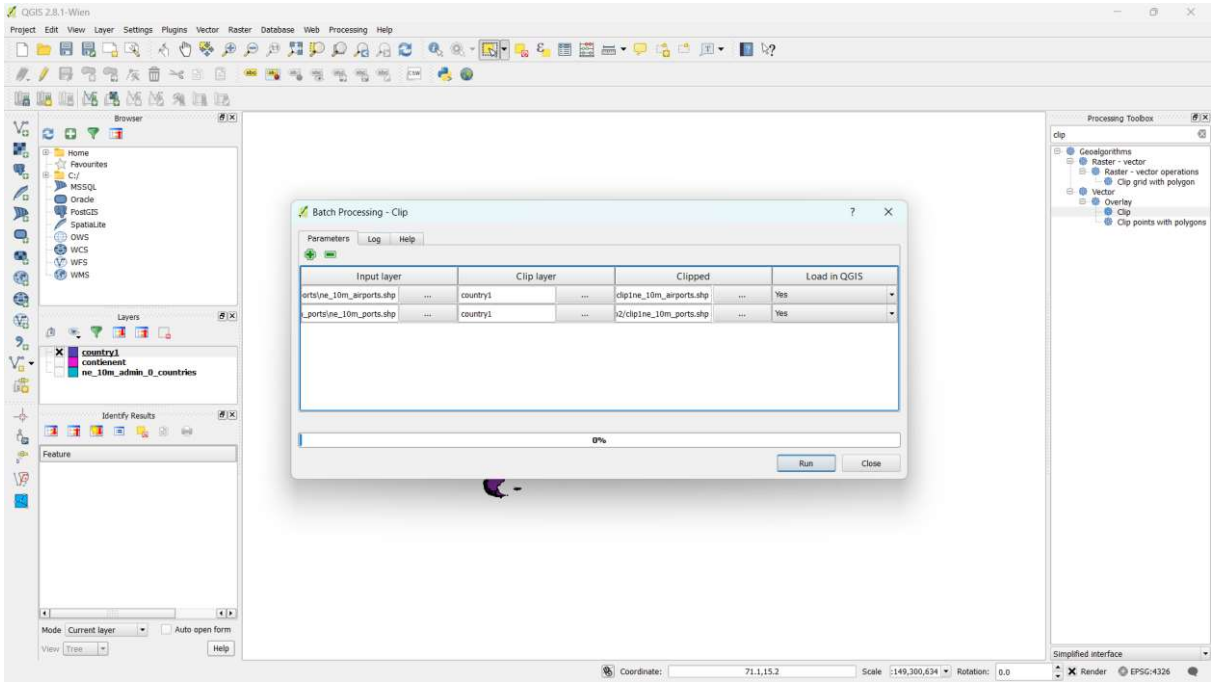
Step 4 – Processing > Toolbox. Search for Clip.

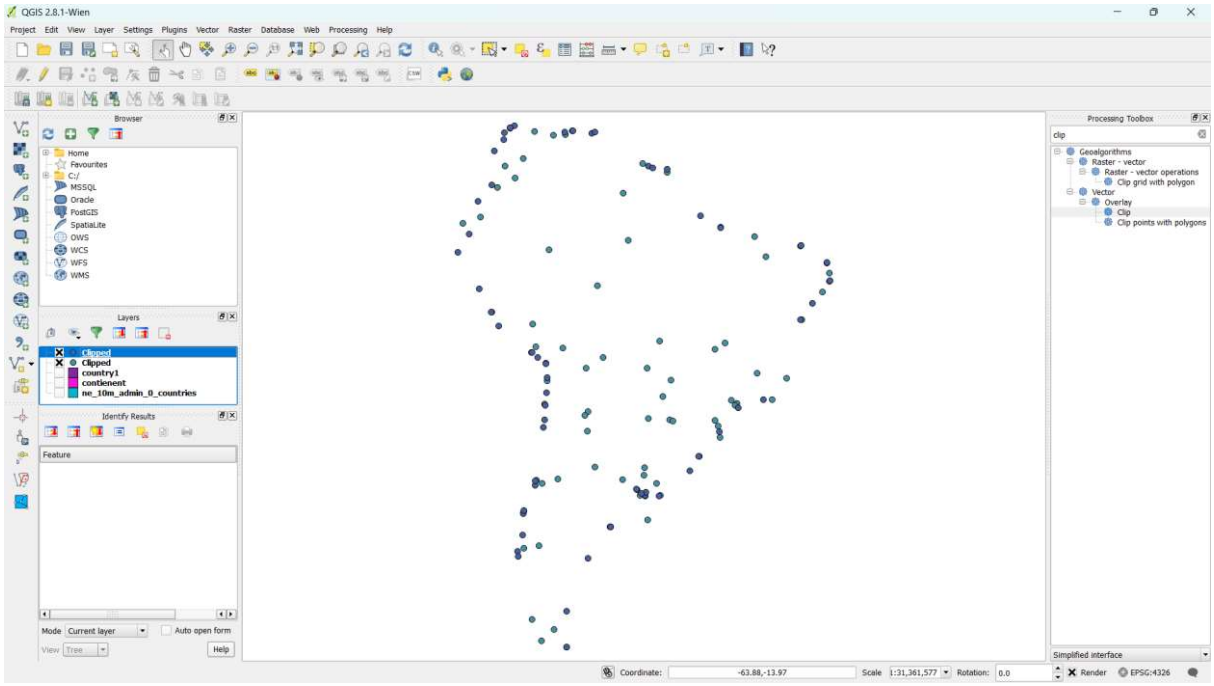




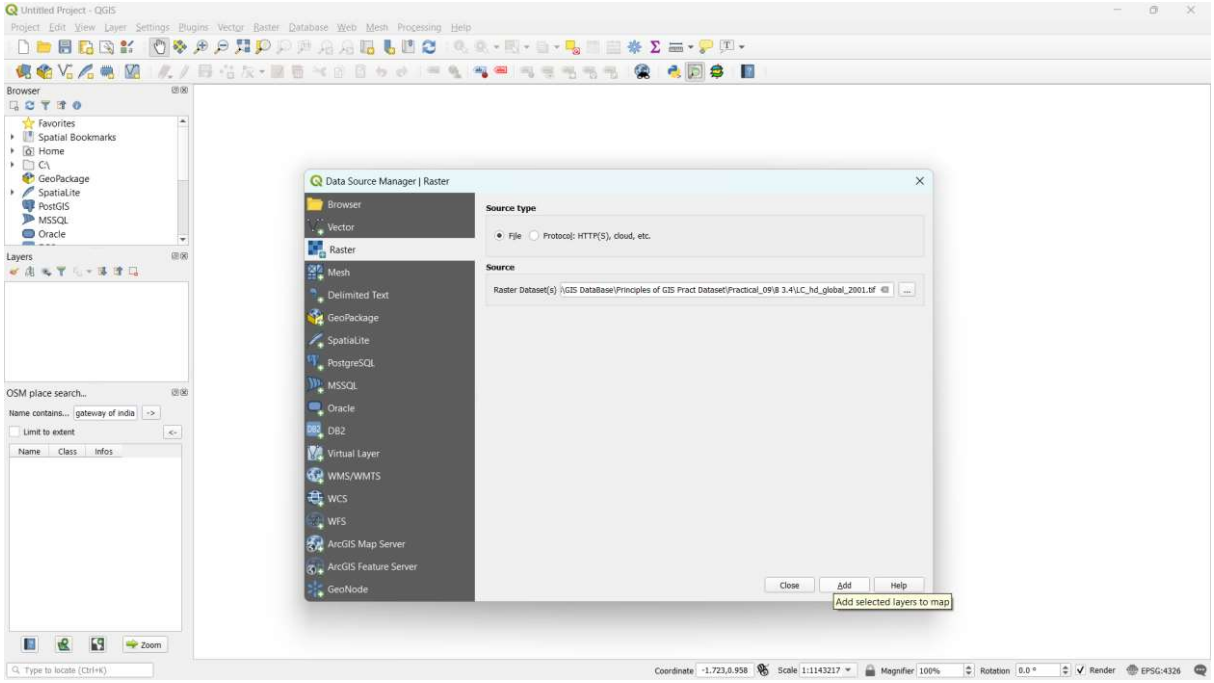
Step 5 – Right click on Clip and select execute as batch process. Set the following parameters and click run.

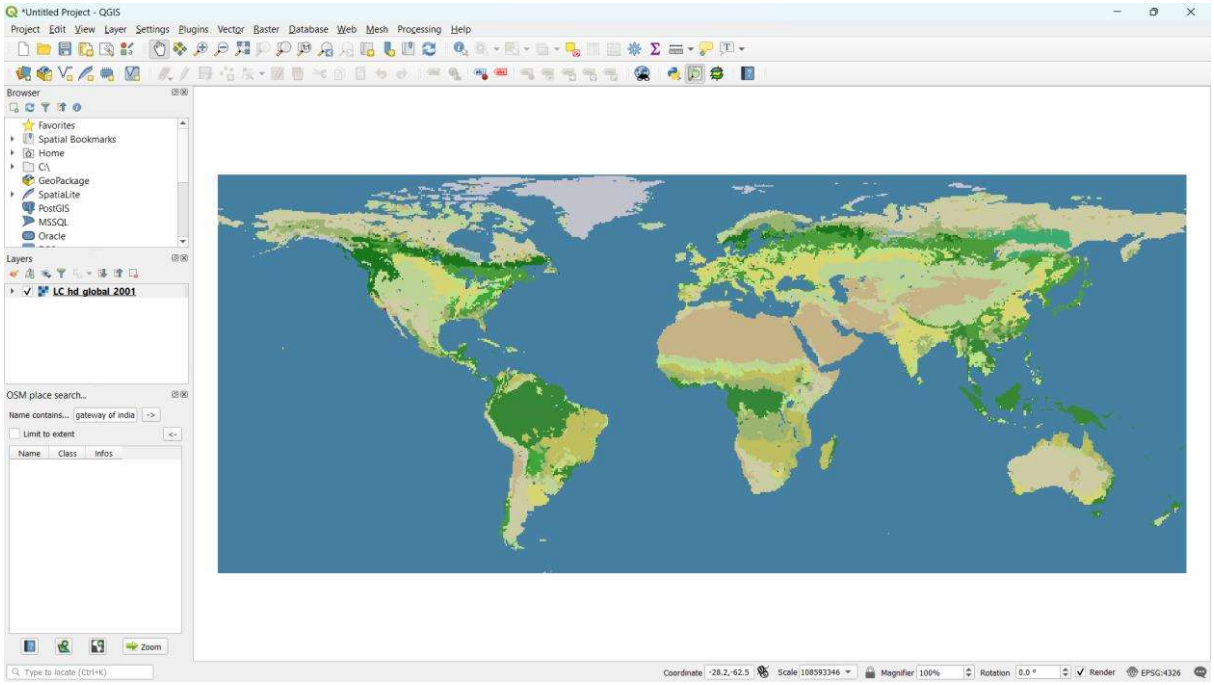



QGIS 2.8.1-Wien
Batch Processing - Clip
Parameters
Log
Help
Input layer
Clip layer
Clipped
Load in QGIS
country1
Yes
0%
Run
Close
Browser
Layers
country1
contienent
ne_10m_admin_0_countries
Identify Results
Feature
Processing Toolbox
Geoalgorithms
Raster - vector
Raster - vector operations
Clip grid with polygon
Vector
Overlay
Clip
Clip points with polygons

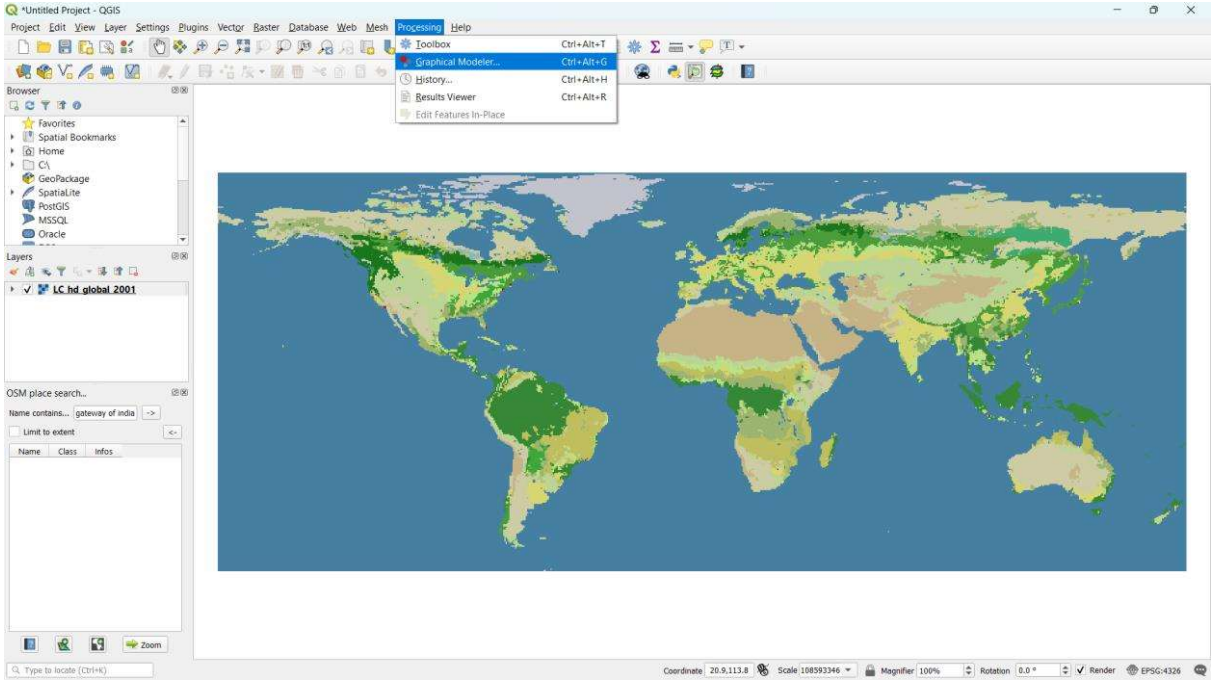

QGIS 2.8.1-Wien
Browser
Layers
Clipped
country1
contienent
ne_10m_admin_0_countries
Identify Results
Feature
Processing Toolbox
Geoalgorithms
Raster - vector
Raster - vector operations
Clip grid with polygon
Vector
Overlay
Clip
Clip points with polygons

Step 6 – Create a new project. Add the following raster layer.

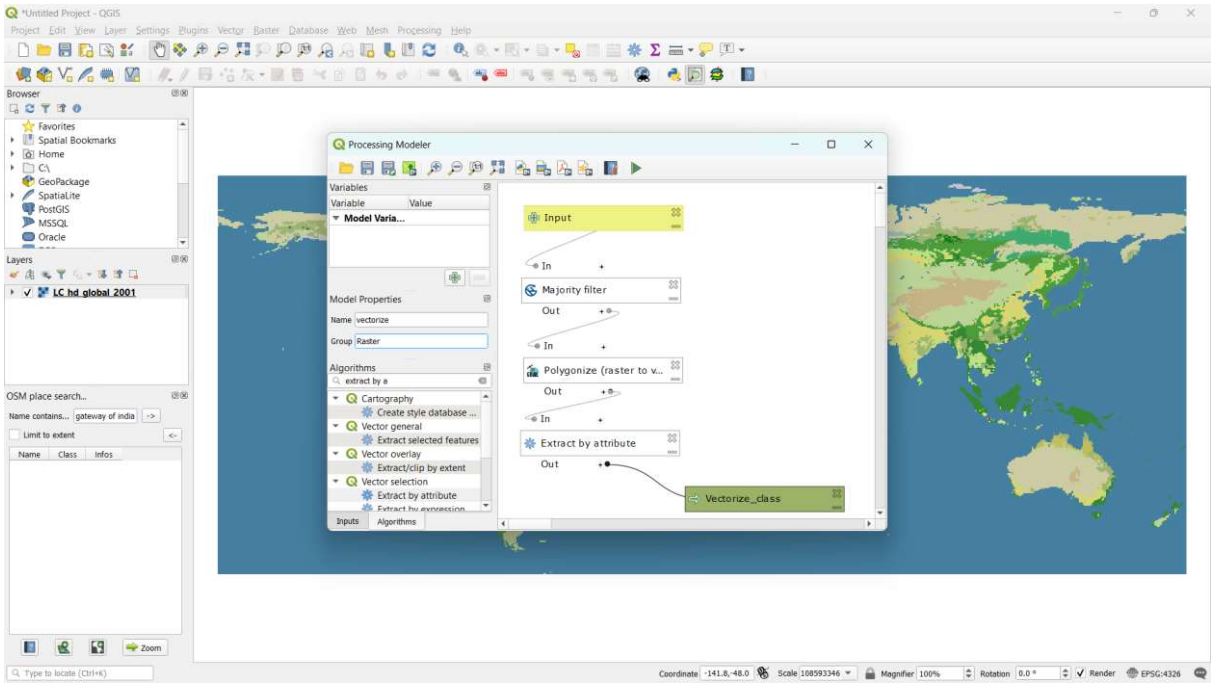




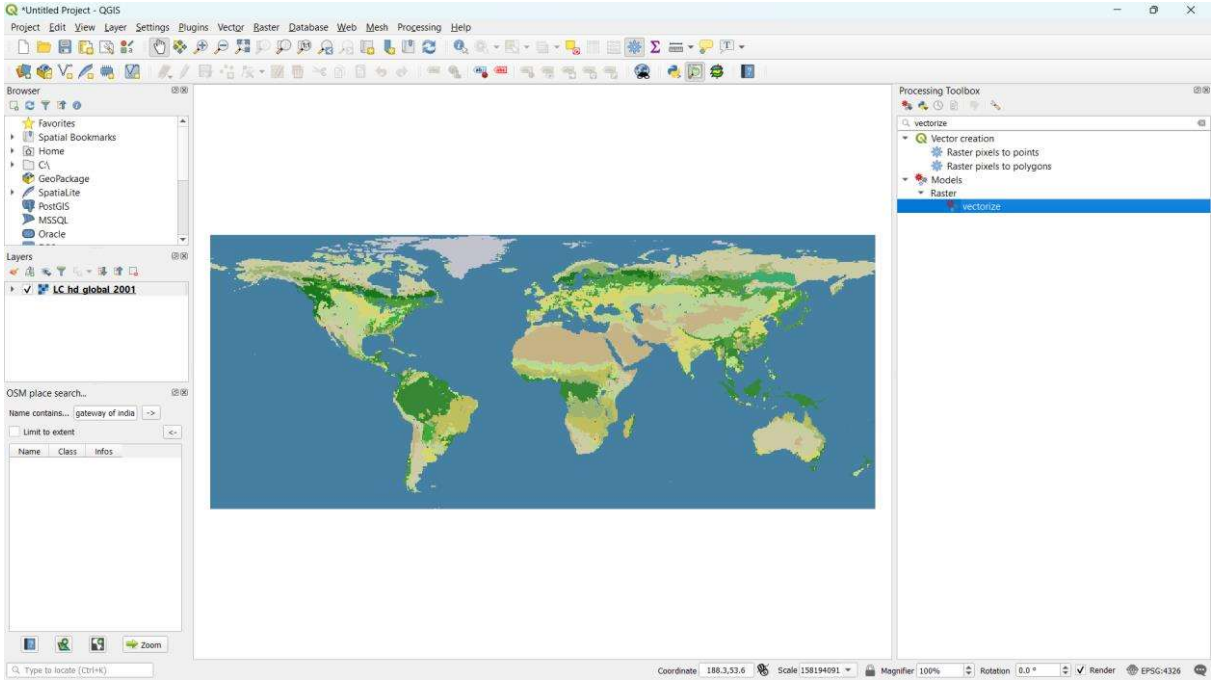
Step 7 – Processing > Graphical Modular.



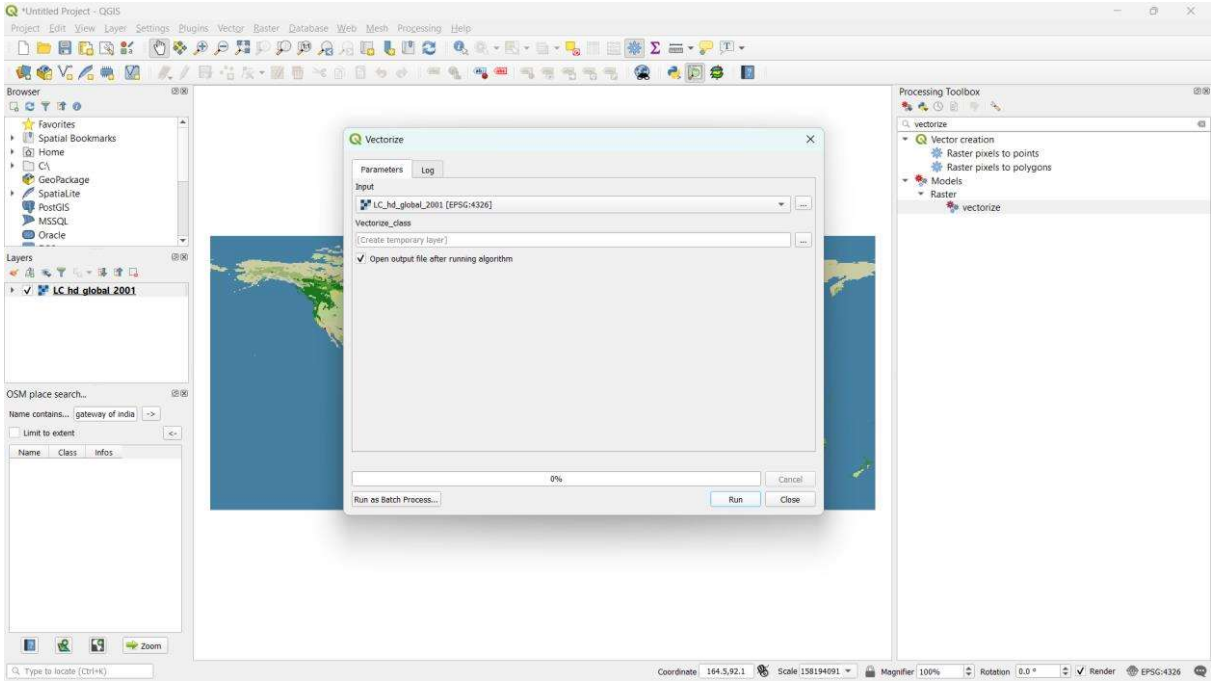
Step 8 – Set the input and algorithms as following and save the model.

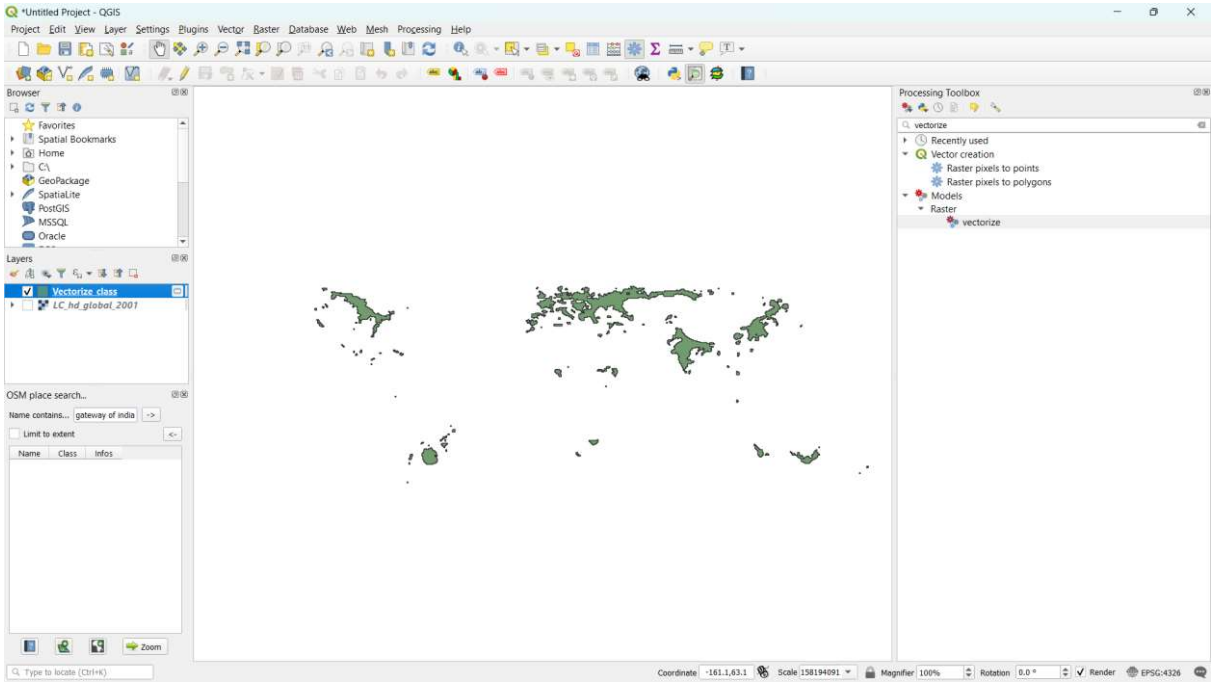


Step 9 – Processing > Toolbox. Search for vectorize.

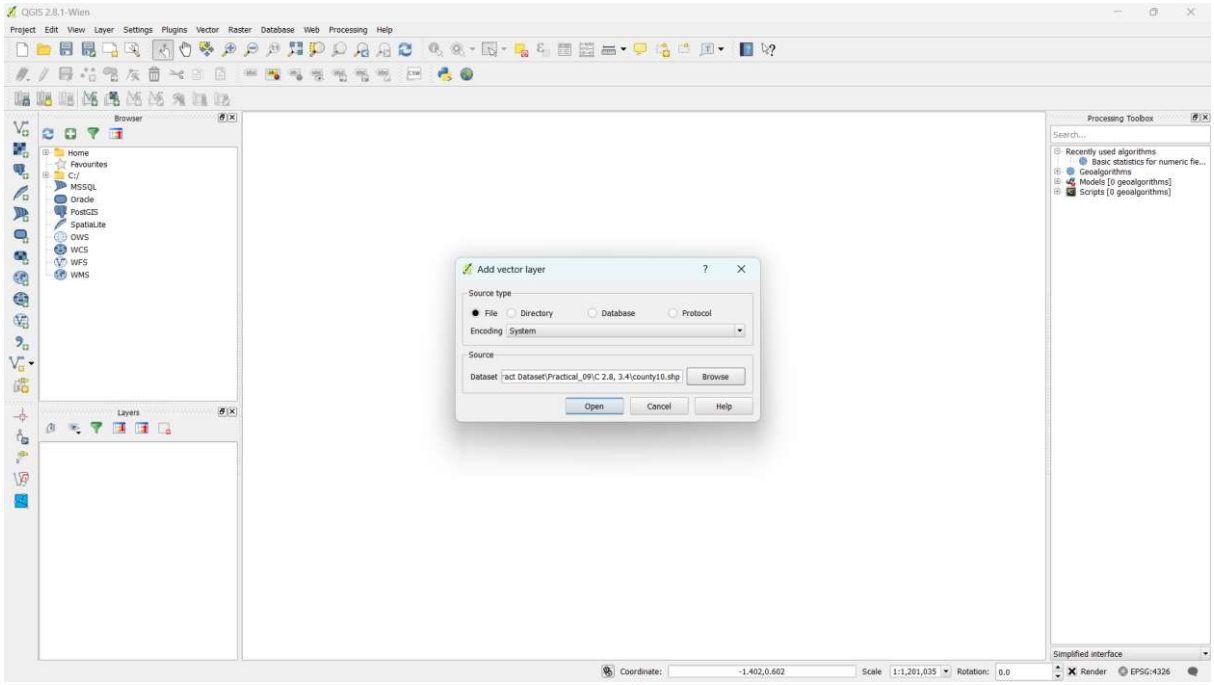


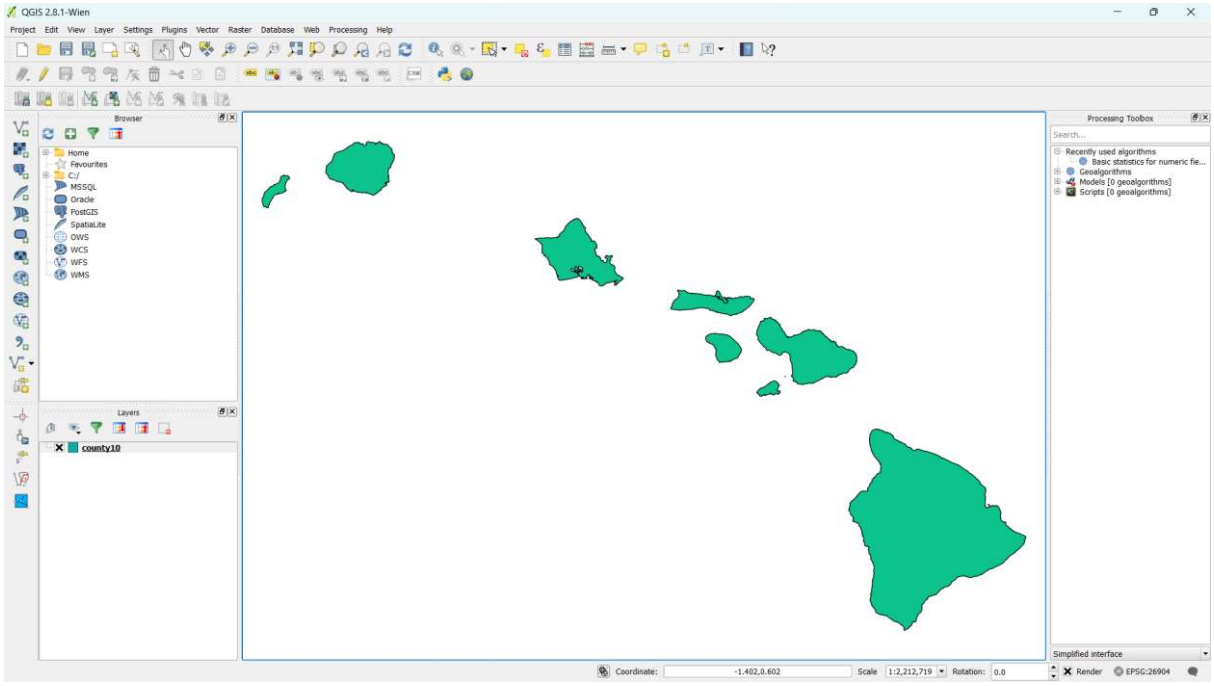
Step 10 – Double click the vectorize tool, select the input layer and click run.



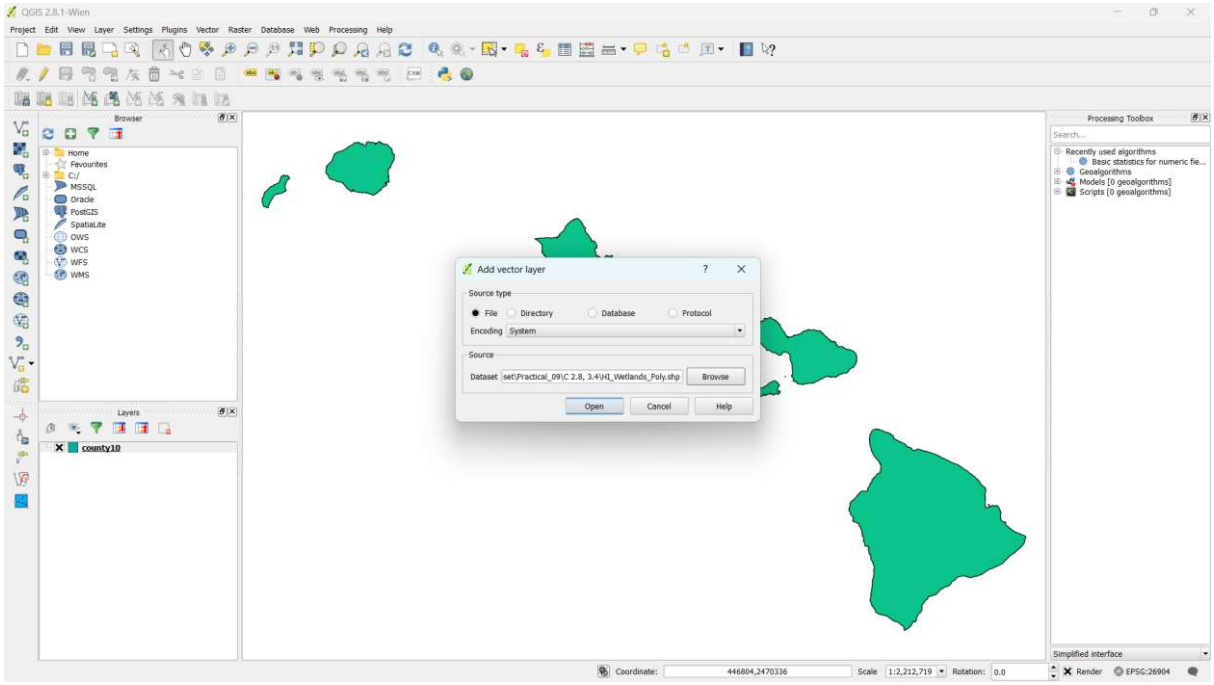


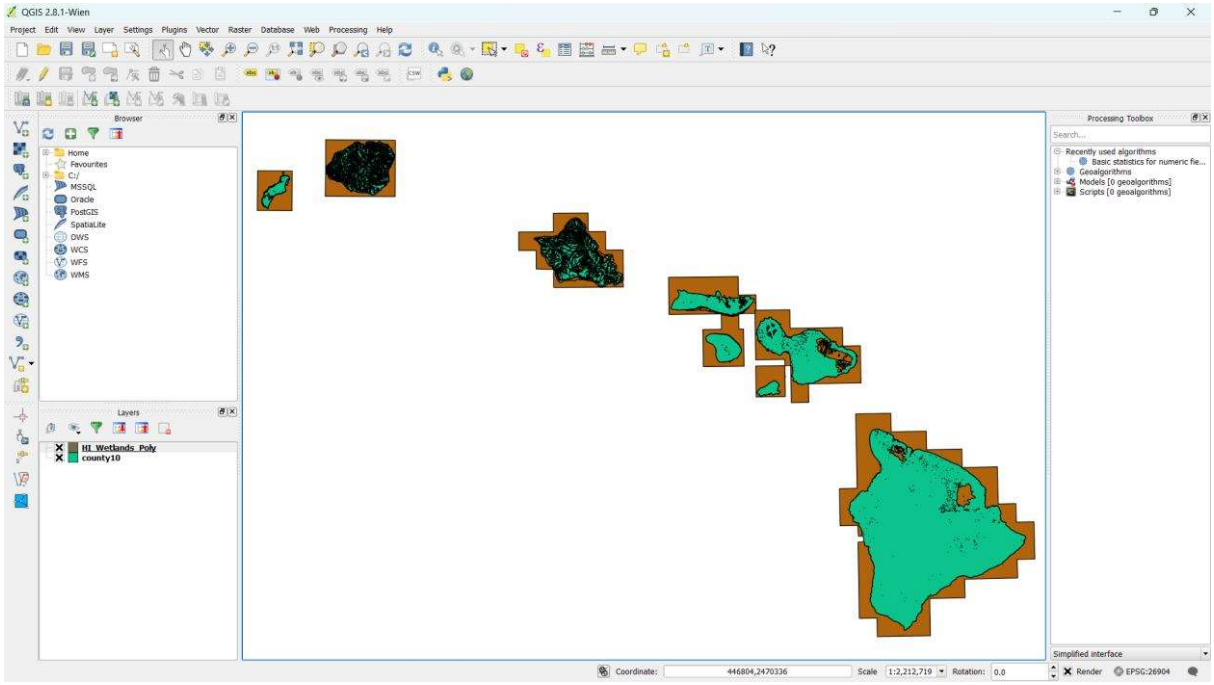
Step 11 – Create a new project. Add the following Vector layer.



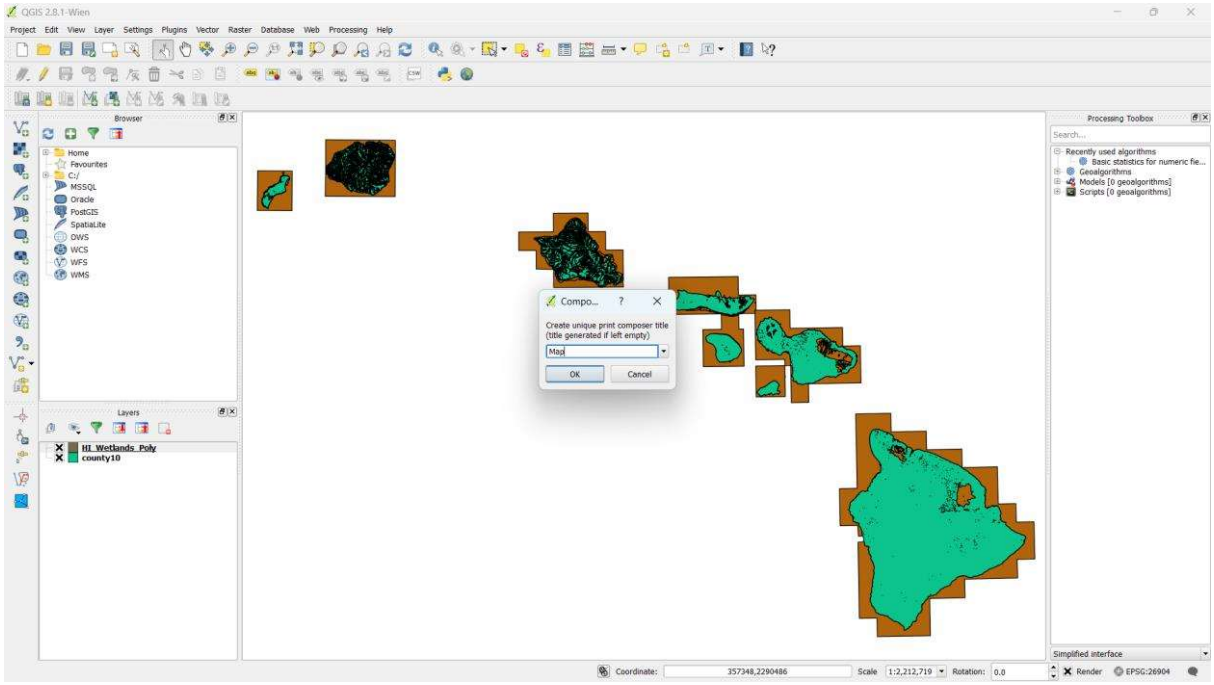


Step 12 – Add the following vector layer.

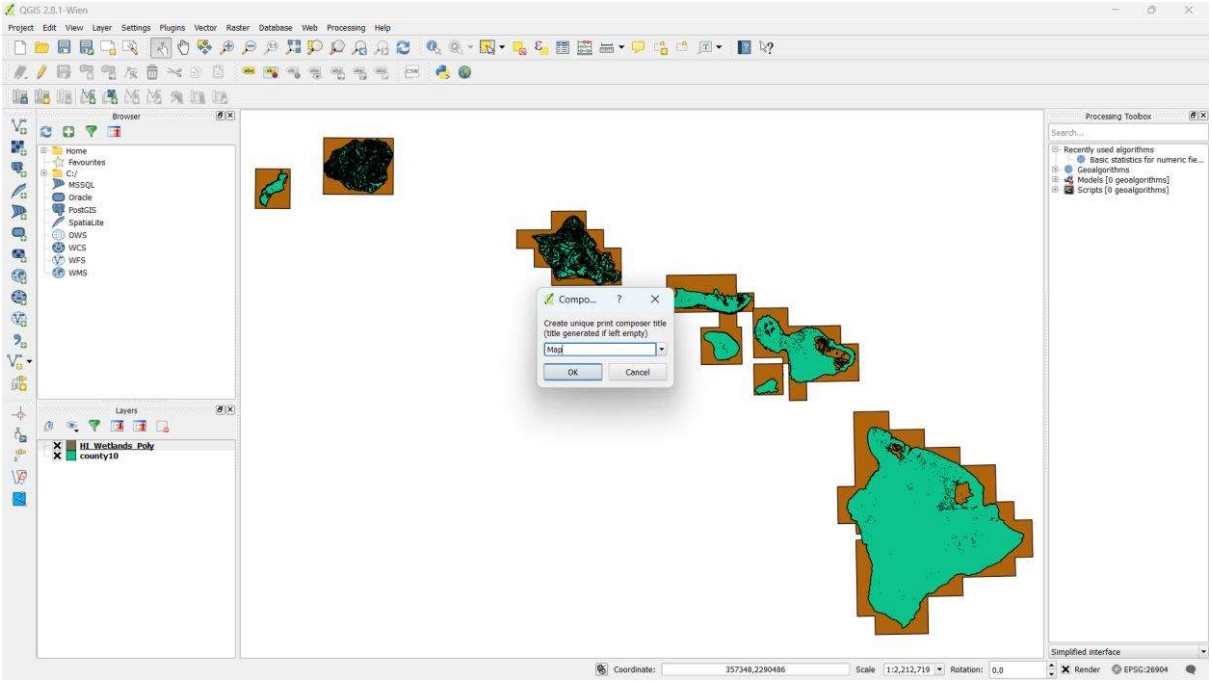




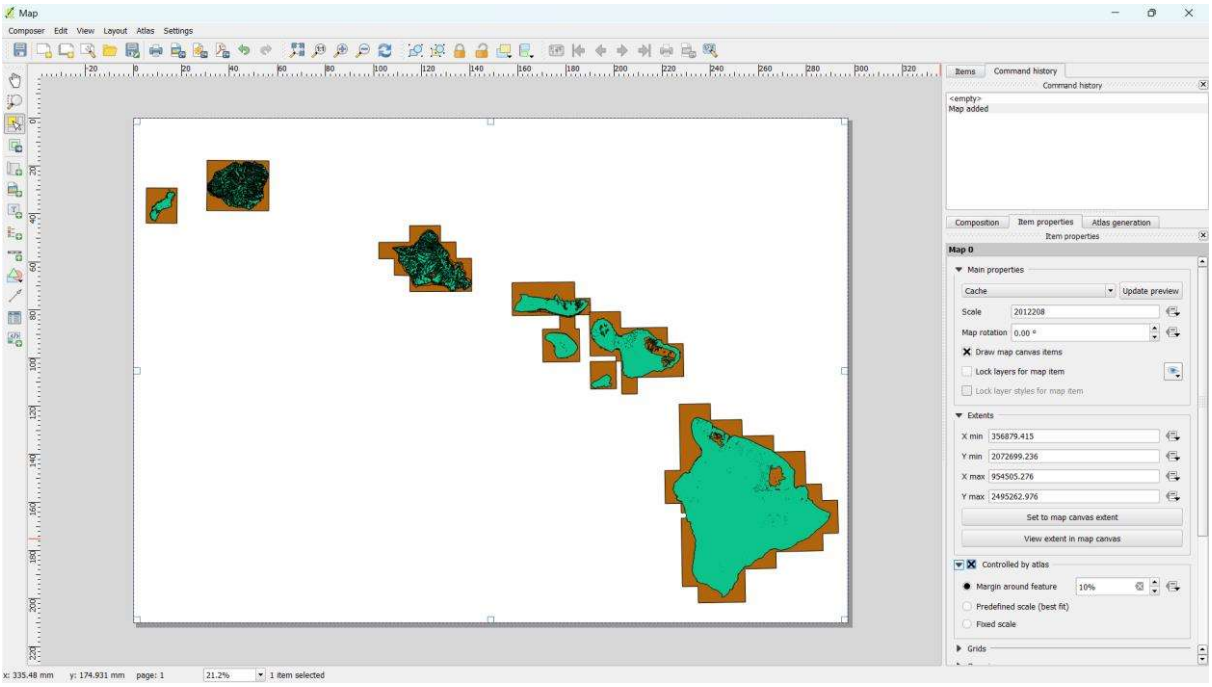
Step 13 – Project > New Print Composer.



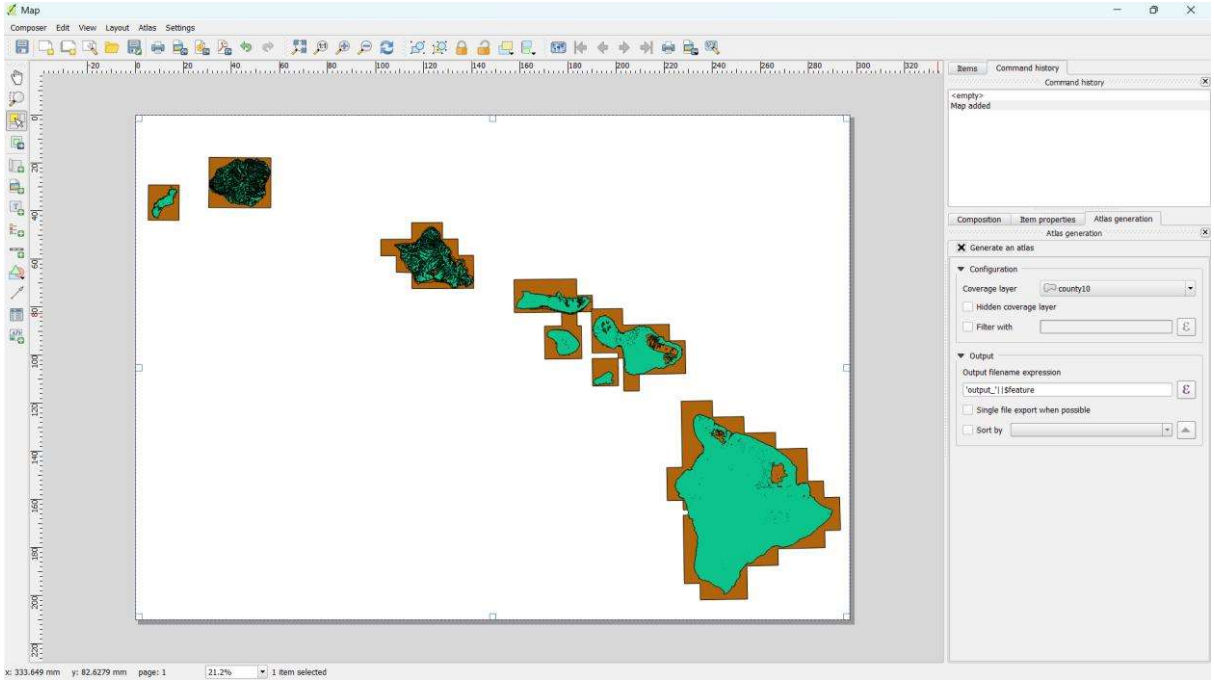
Step 14 – Layout > Add Map. Select the entire canvas.



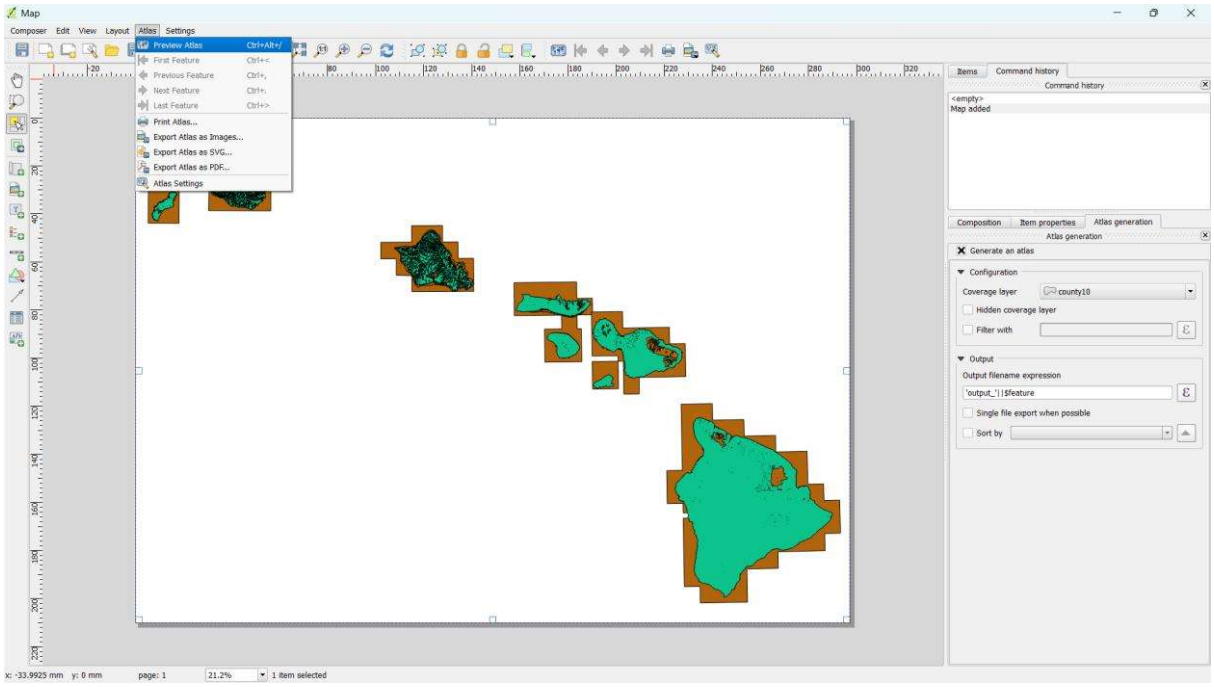
Step 15 – Tick the Controlled by Atlas checkbox in item properties.

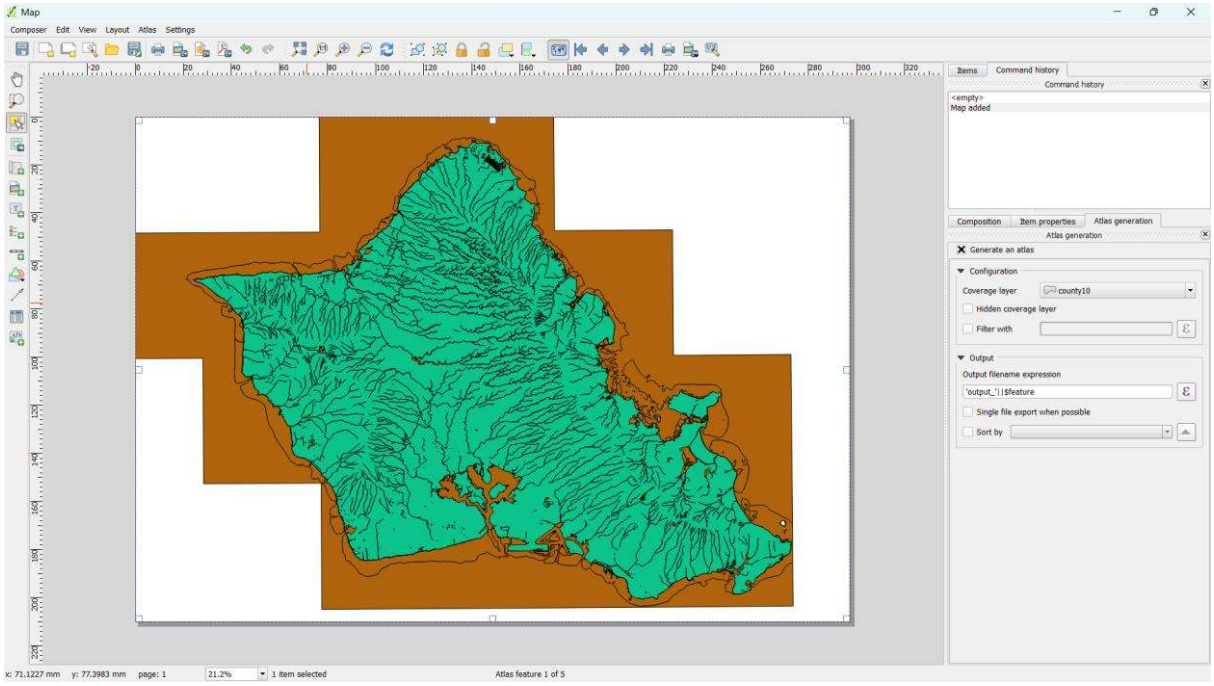


Step 16 – Go to Atlas generation and set the following attributes.

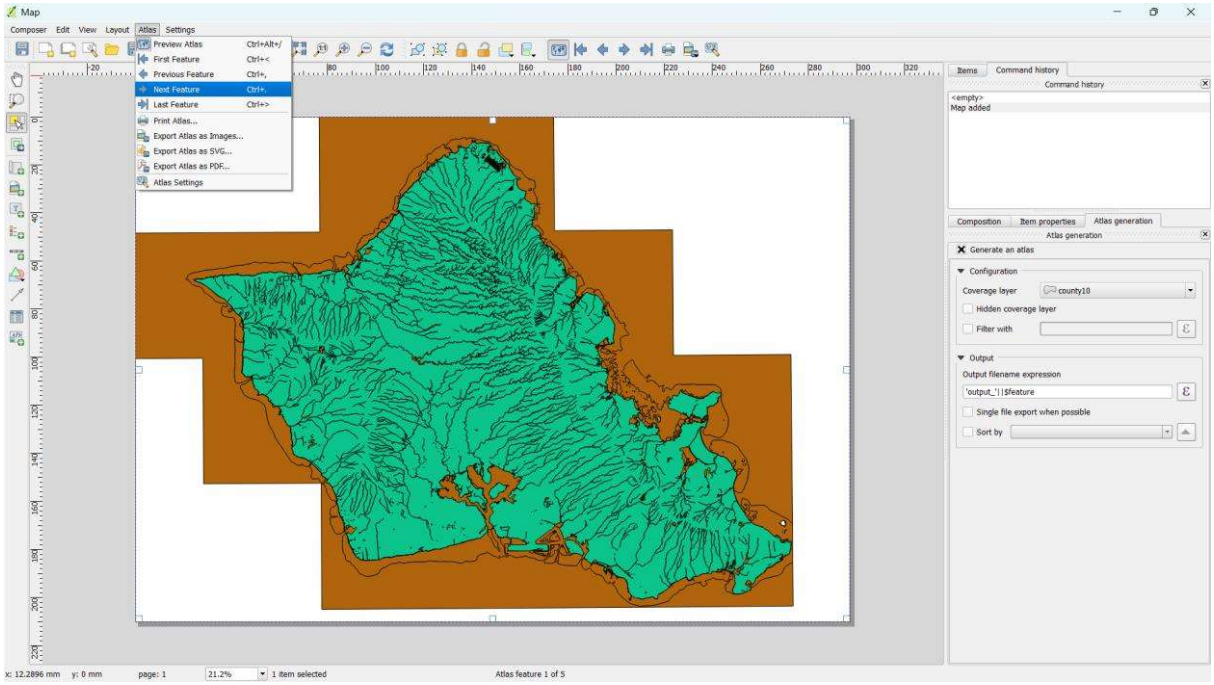


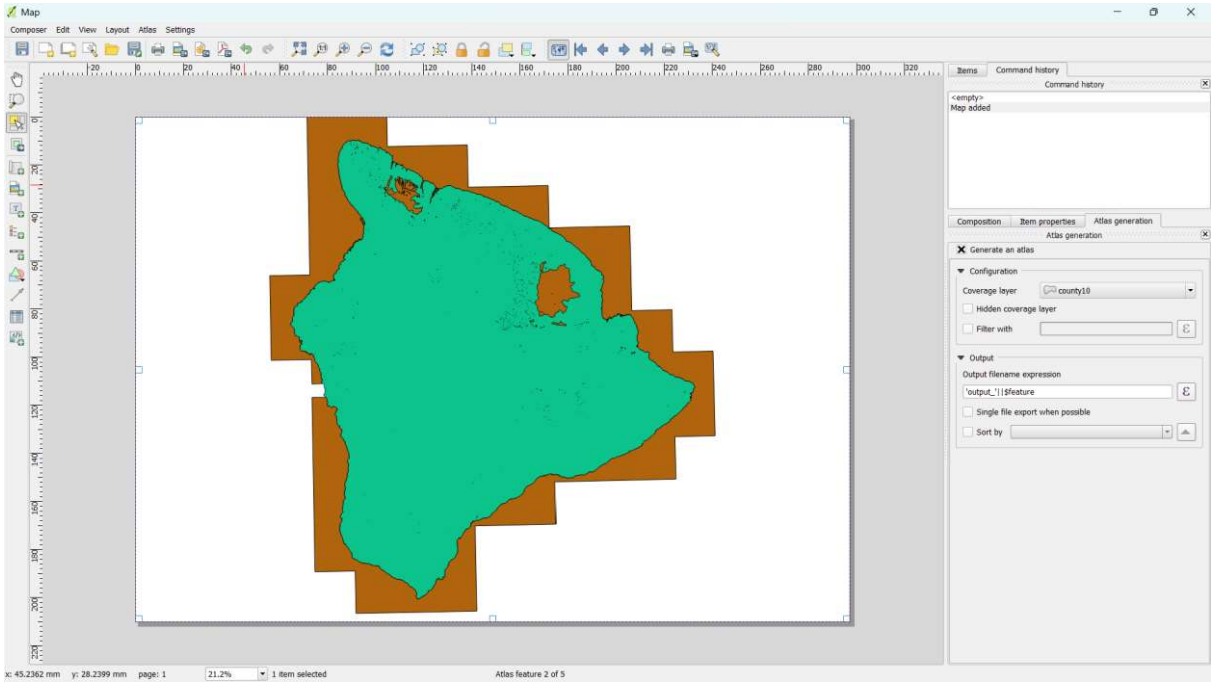
Step 17 – Atlas > Preview Atlas.



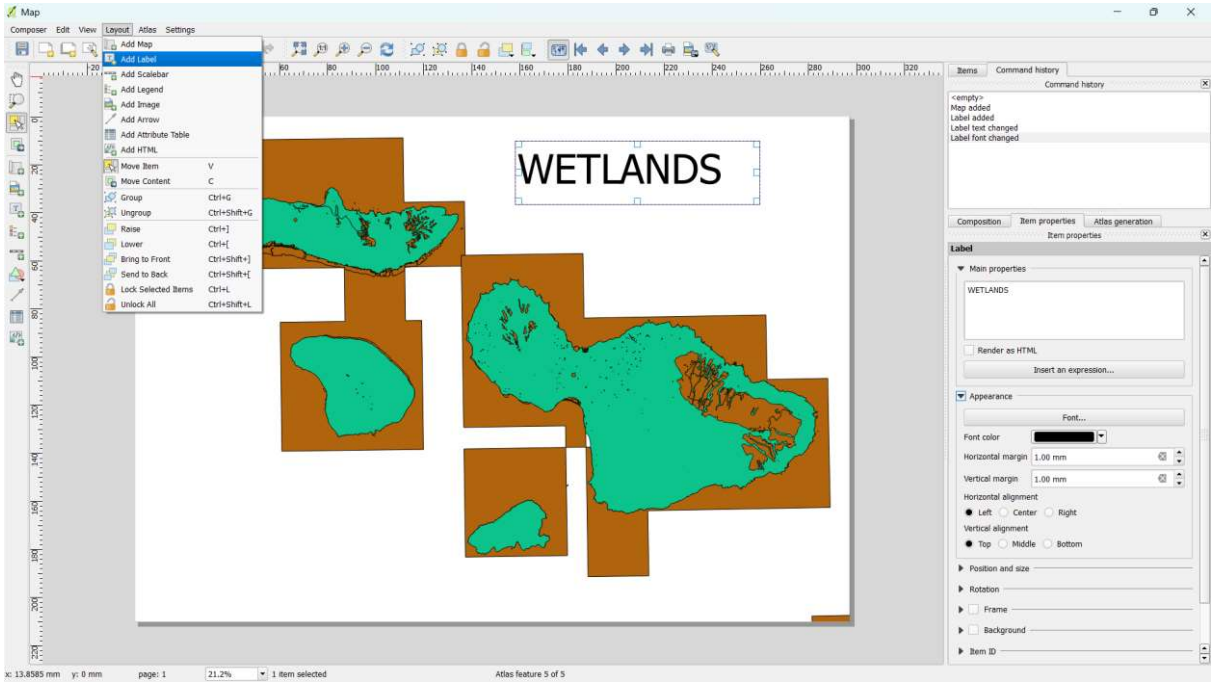


Step 18 – Atlas > Next Feature.

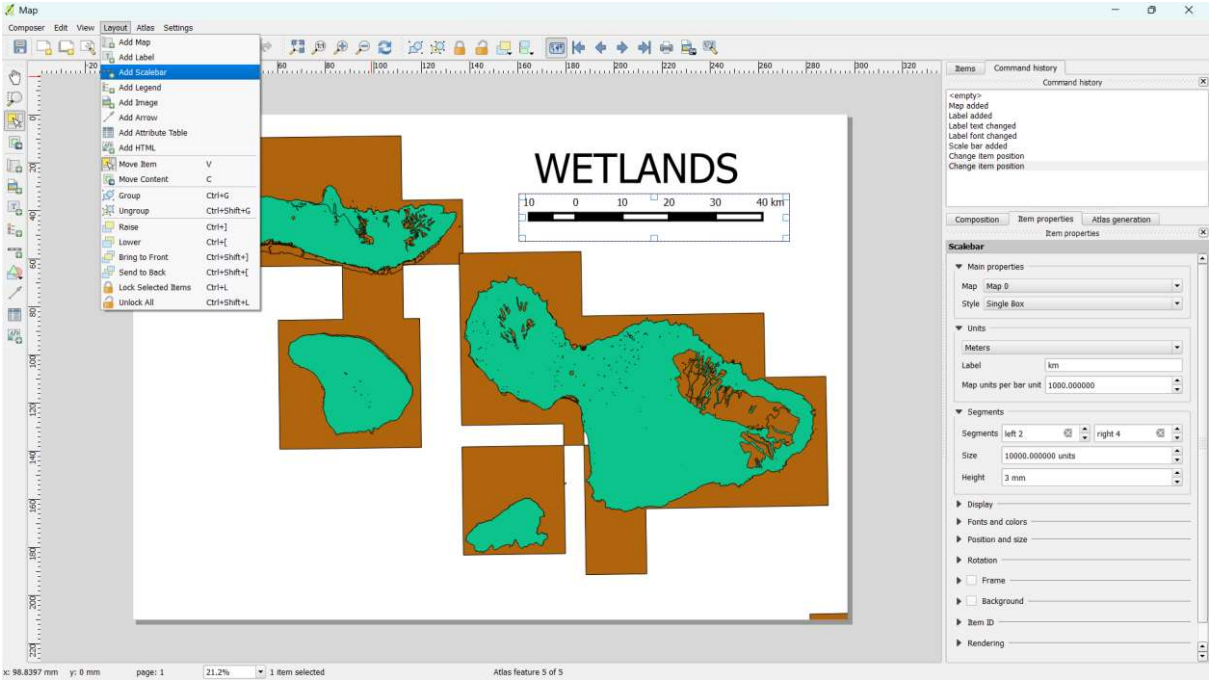




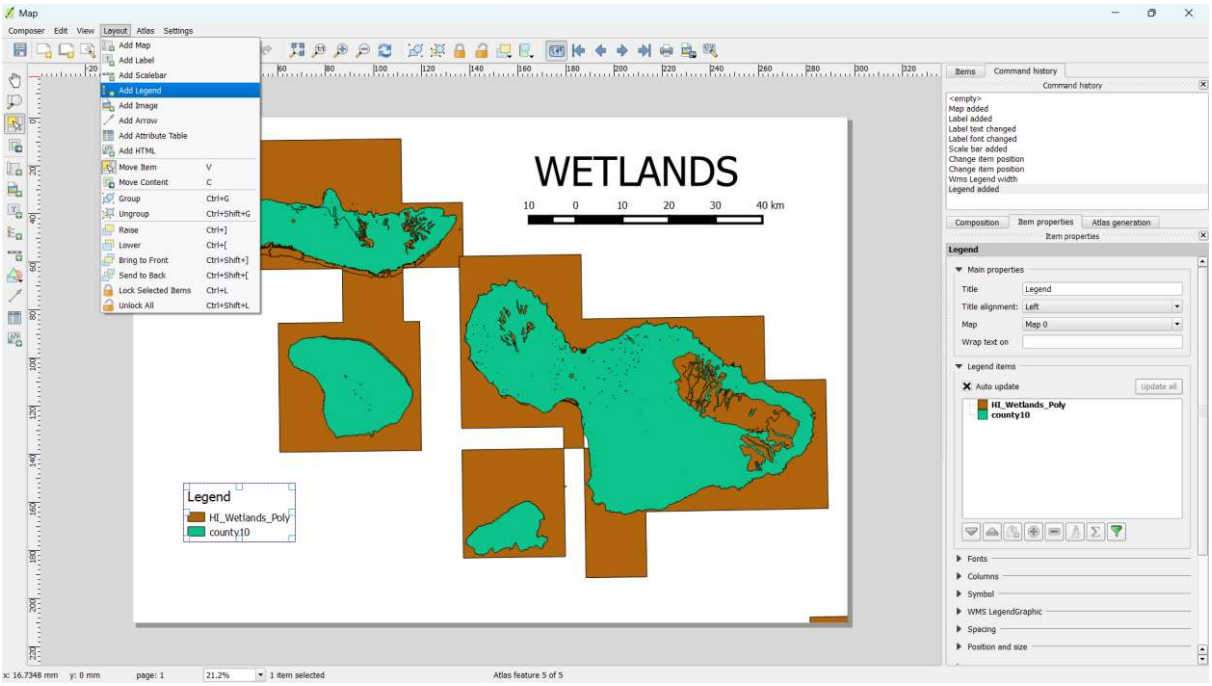
Step 19 – Layout > Add Label.



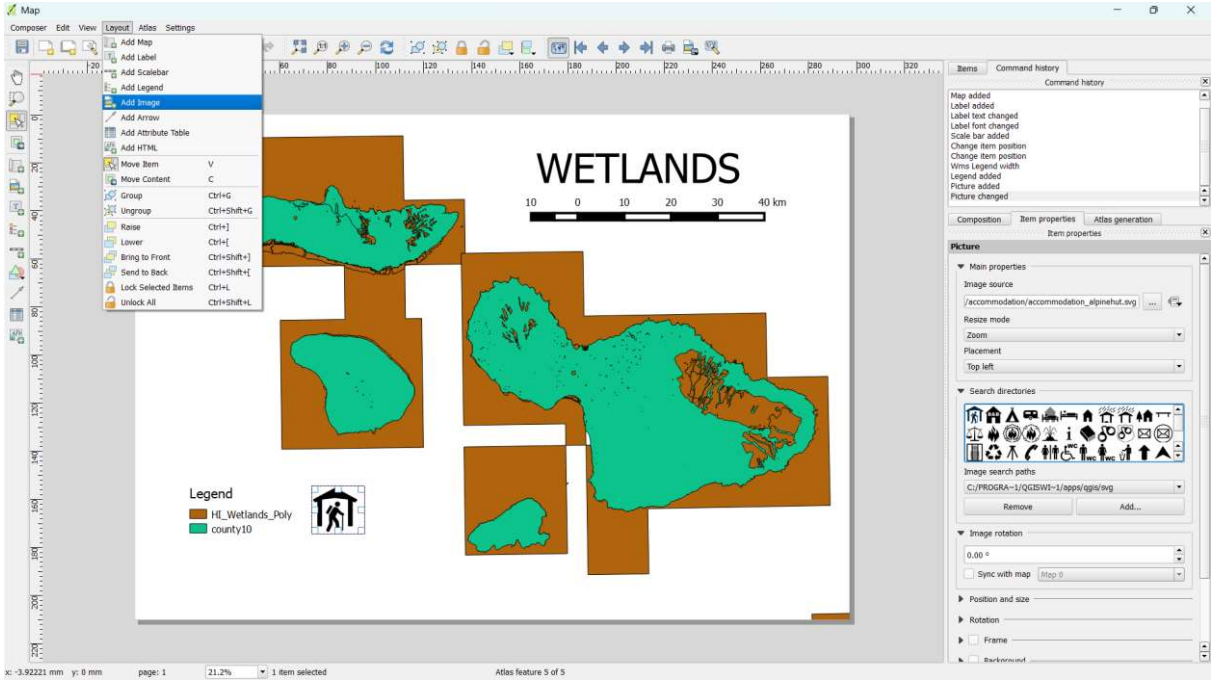
Step 20 – Layout > Add Scalebar.



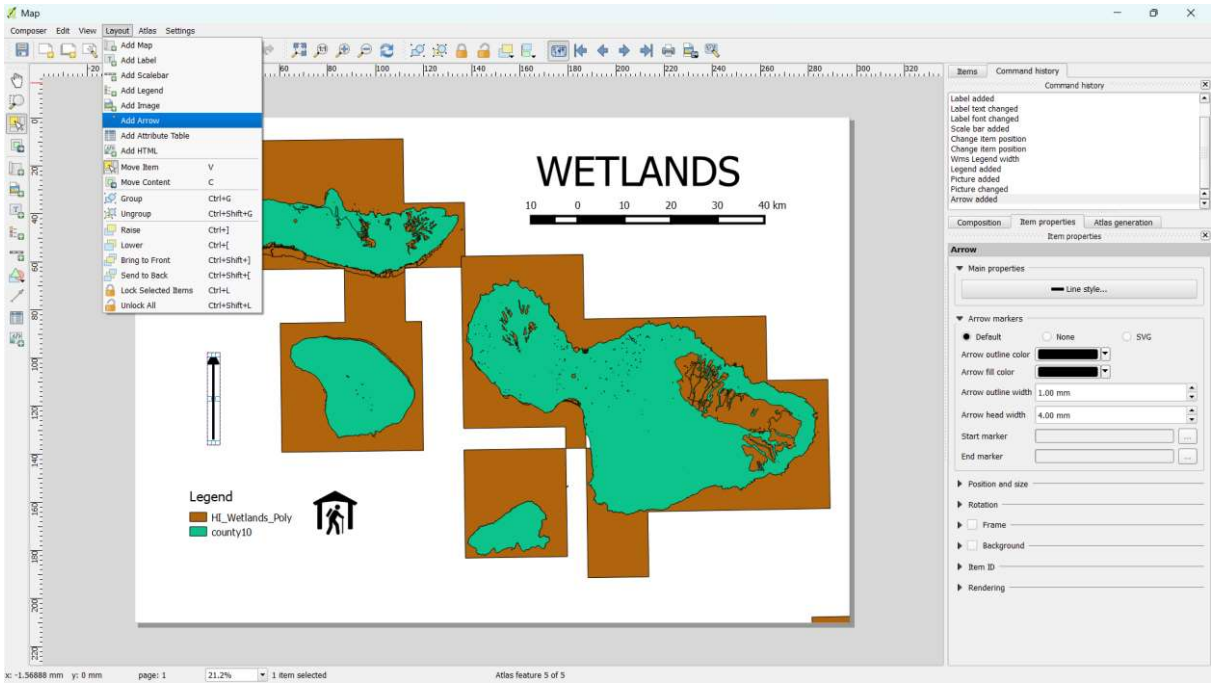
Step 21 – Layout > Add Legend.



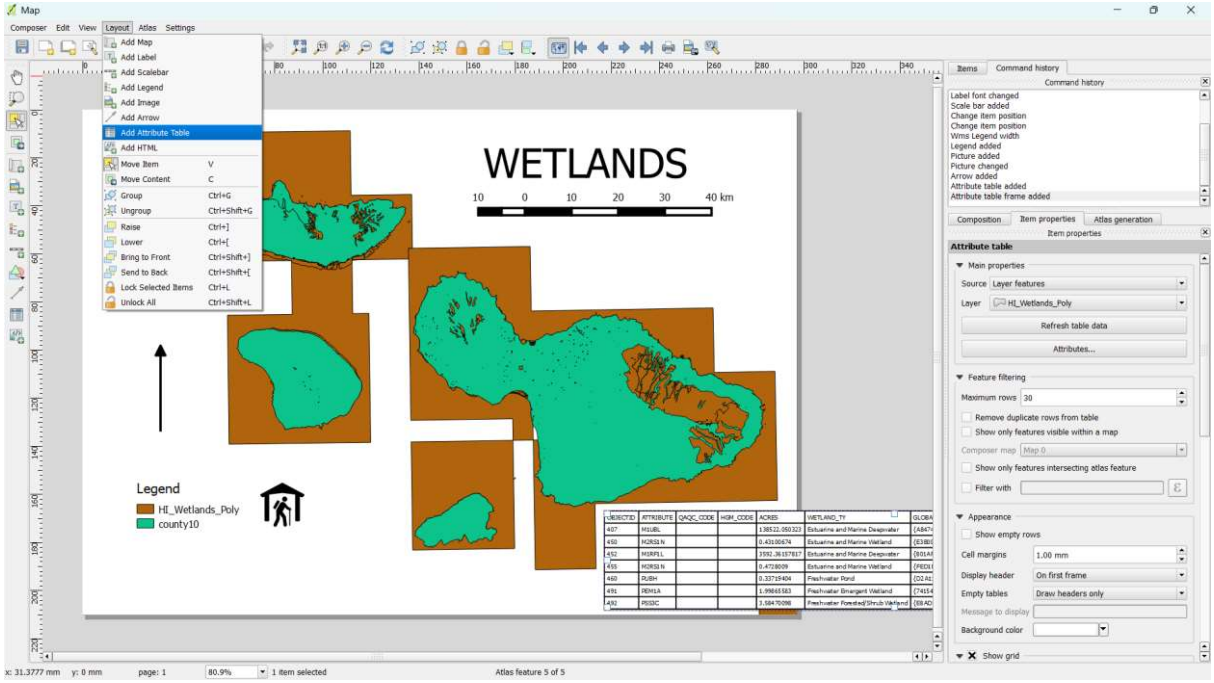
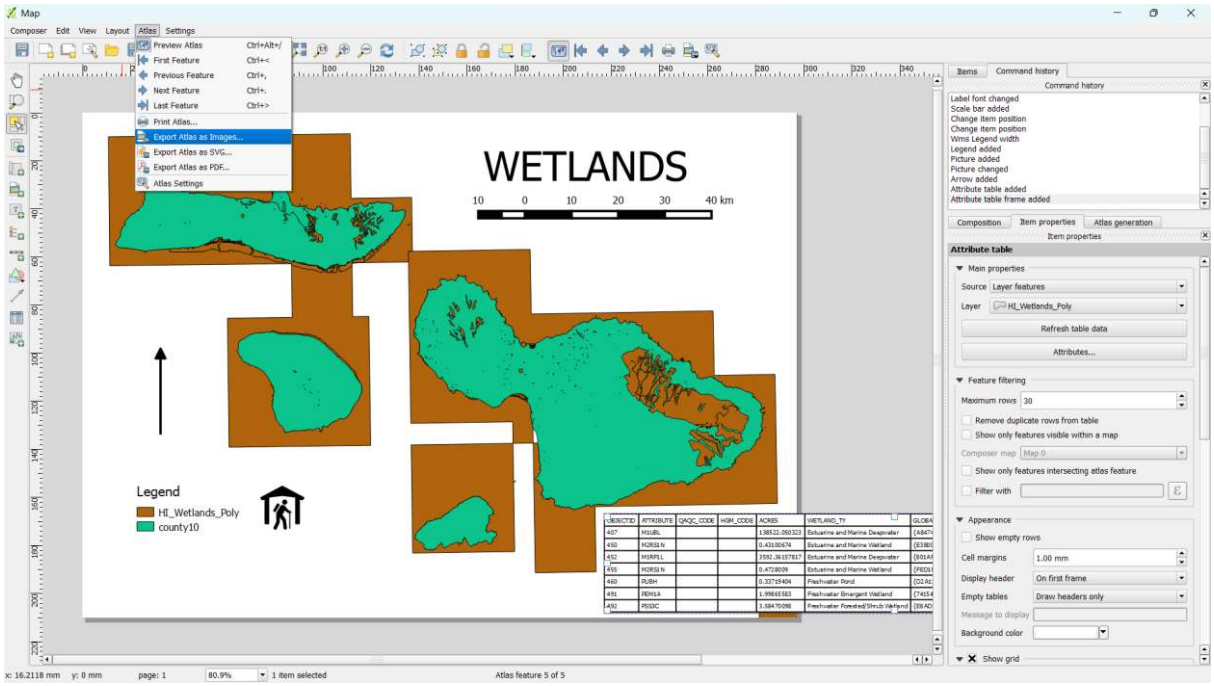
Step 22 – Layout > Add Image.



Step 23 – Layout > Add Arrow.



Step 24 – Layout > Add Attribute Table.



Step 25 – Atlas > Export Atlas as Images.