Rectifying an image and digitizing feature data

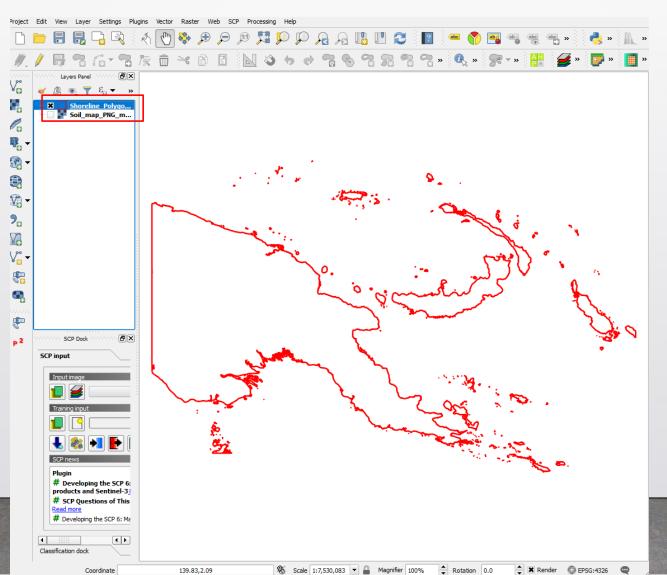
Data Needed:

- Shoreline (Shoreline_Polygon_GCS.shp)
- Soil map (Soil_Map_PNG.tif)

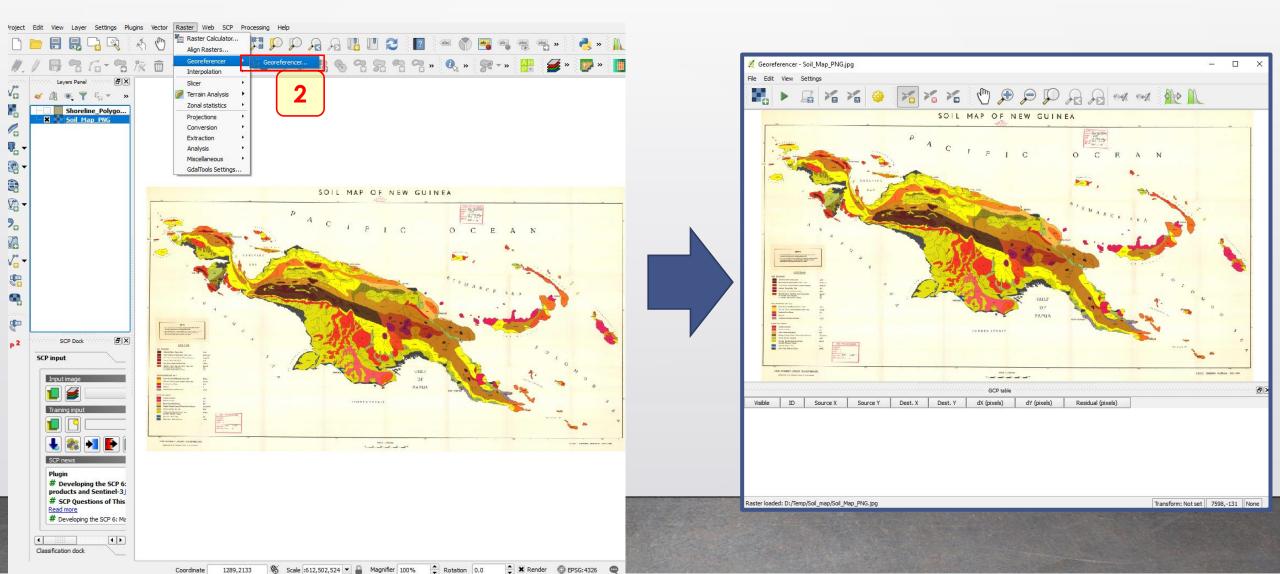
Plugin Needed:

- Points2One
- Digitizing Tools

1. Load all layers



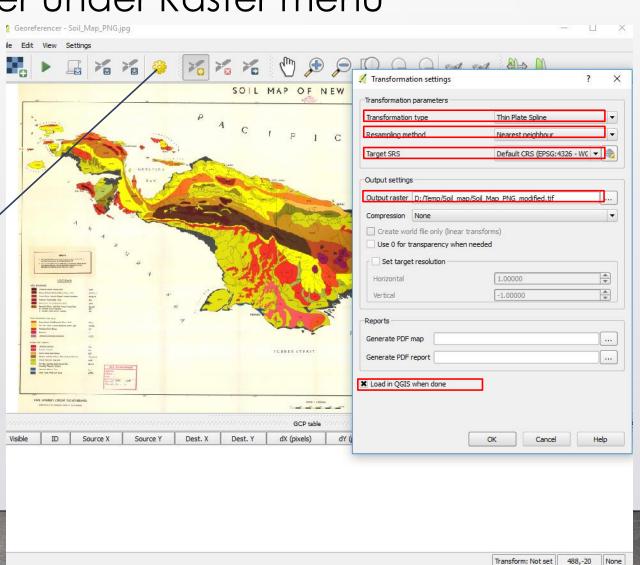
2. Select Georeferencer under Raster menu



3. Select Georeferencer under Raster menu

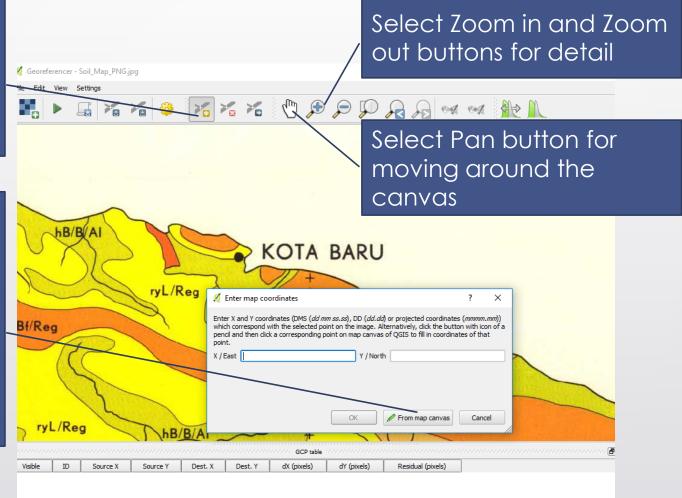
Select Transformation Settings icon to setup parameters

Note: Use coordinate system of the layer you are using to reference the raster image, in this case, the shoreline data, which is based on EPSG 4326



4. Select Add Point icon to start adding GCPs based on the coordinate system of the shoreline layer (EPSG 4326)

5. Select a GCP on the raster layer: If location is known, input coordinates in the x and y field; otherwise, select From map canvas to match location on the shoreline layer

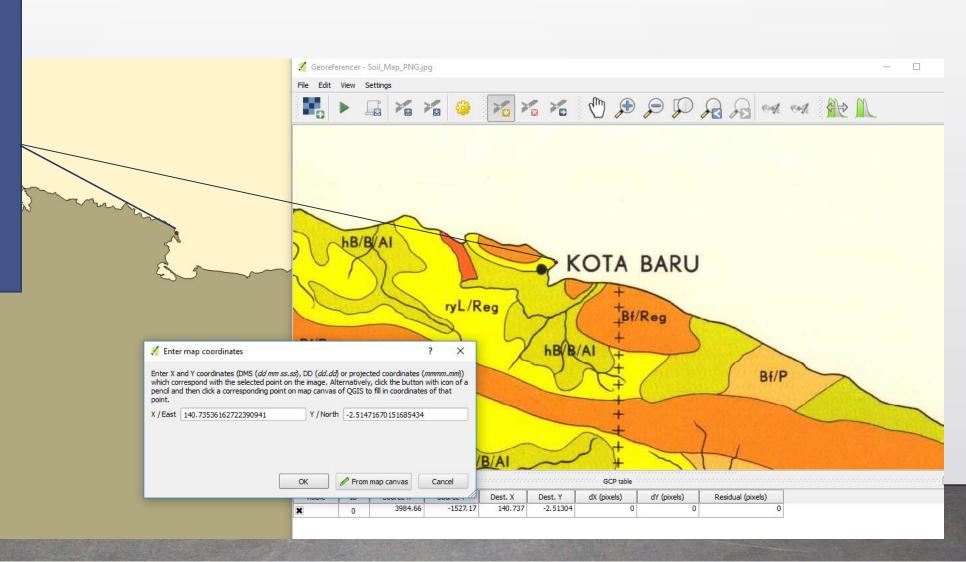


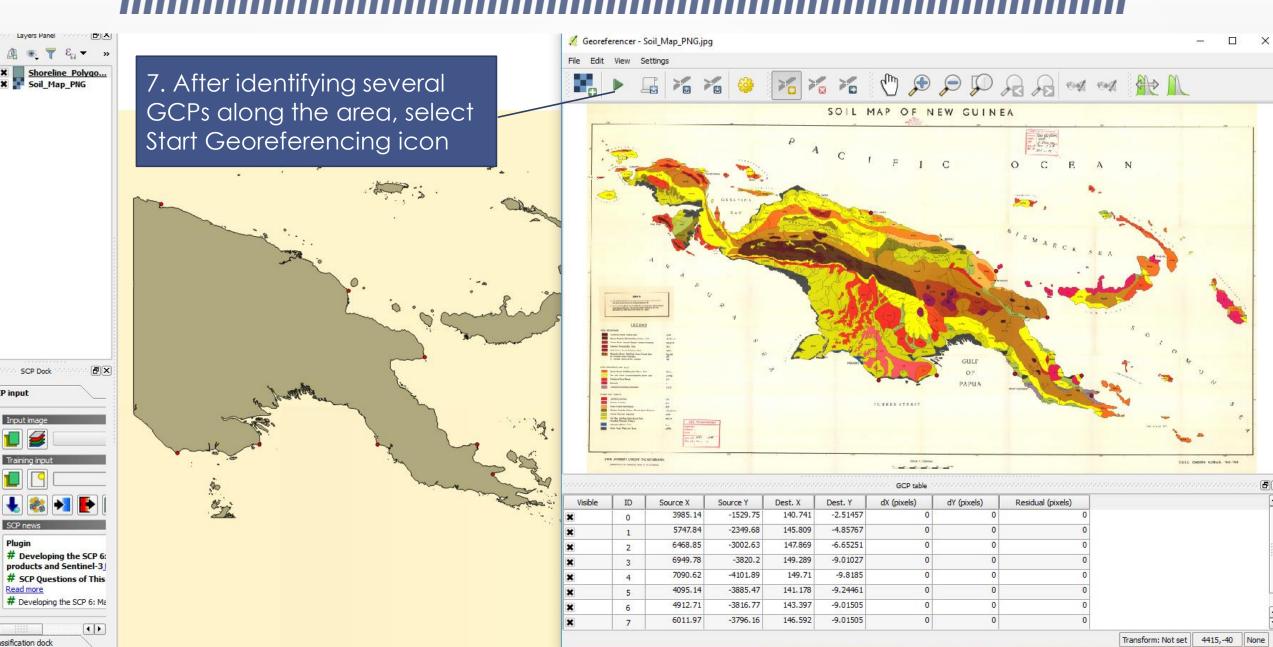
*GCP – ground control point

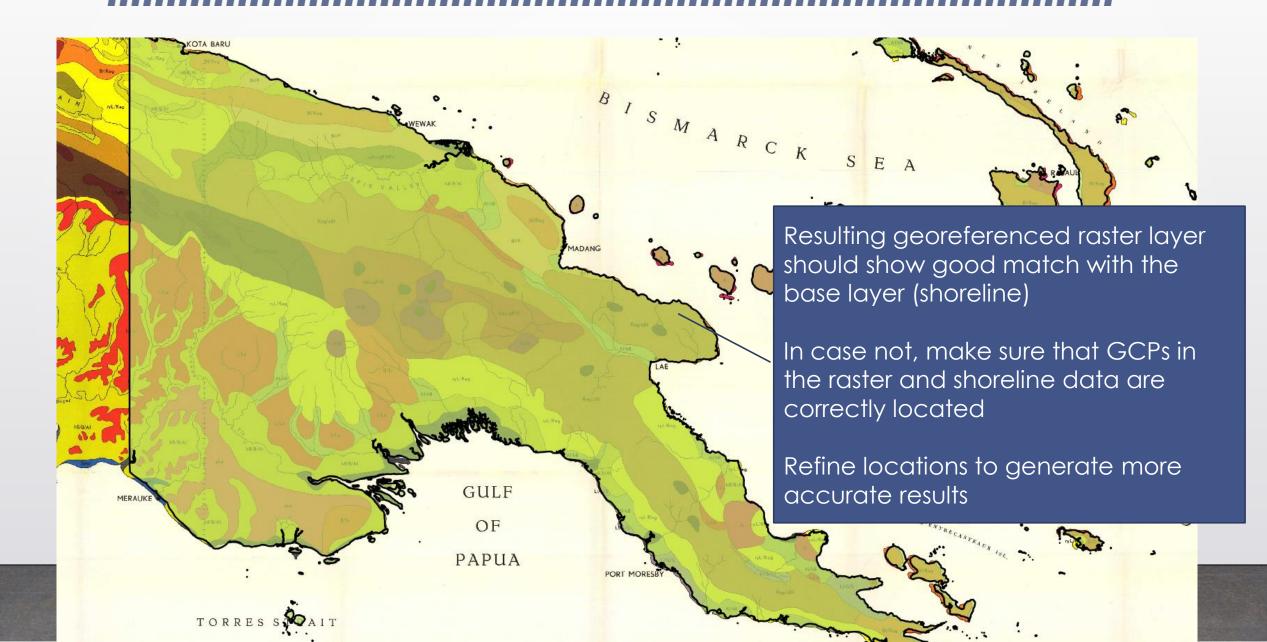
Transform: Not set | 4212,-1589 | None

6. Match the location of the GCP identified in the the raster data to the same location on the shoreline data

Do for more GCPs, make sure to distribute along the area of interest

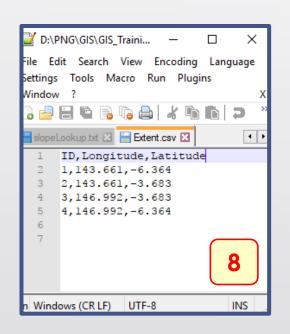


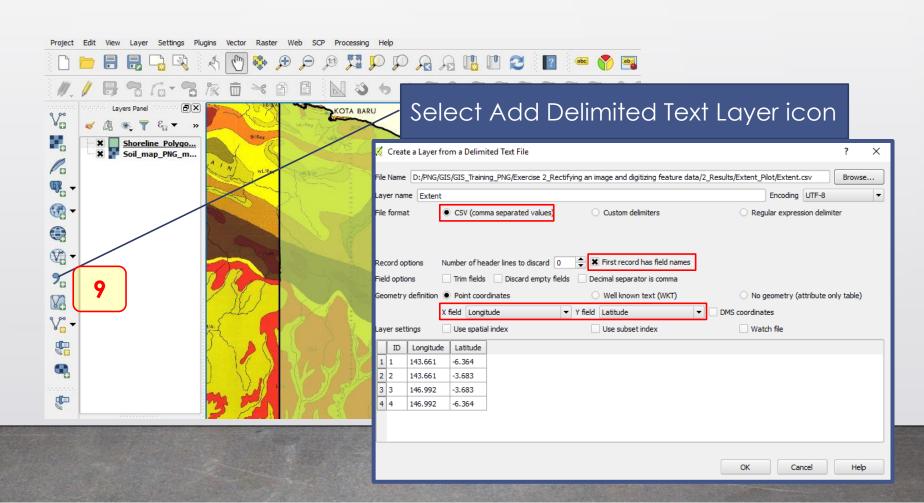




Importing a table data

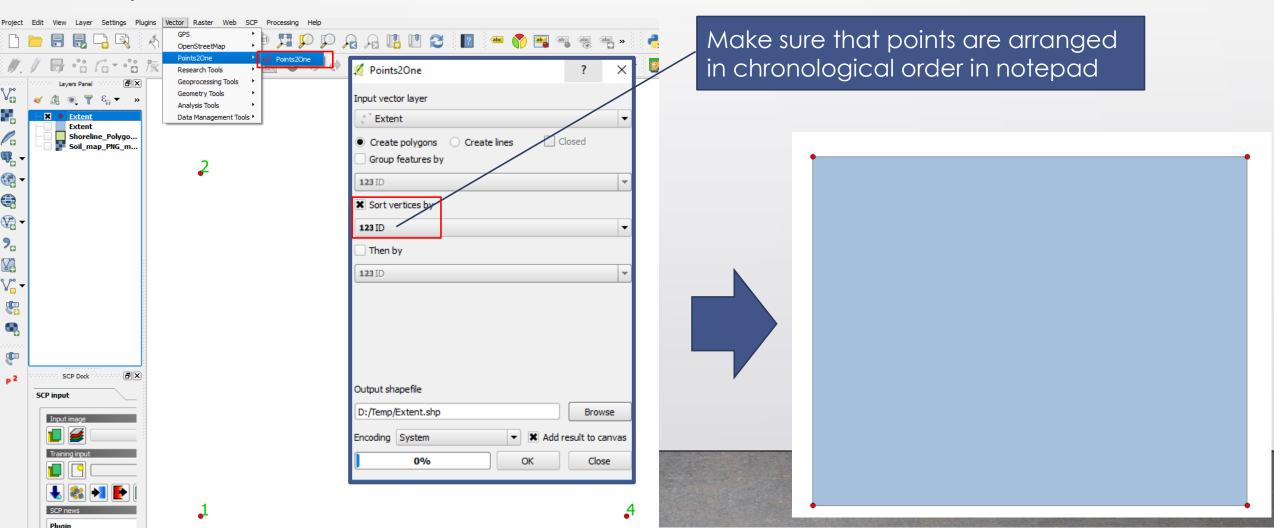
- 8. Prepare extent in notepad
- 9. Import table (csv) data





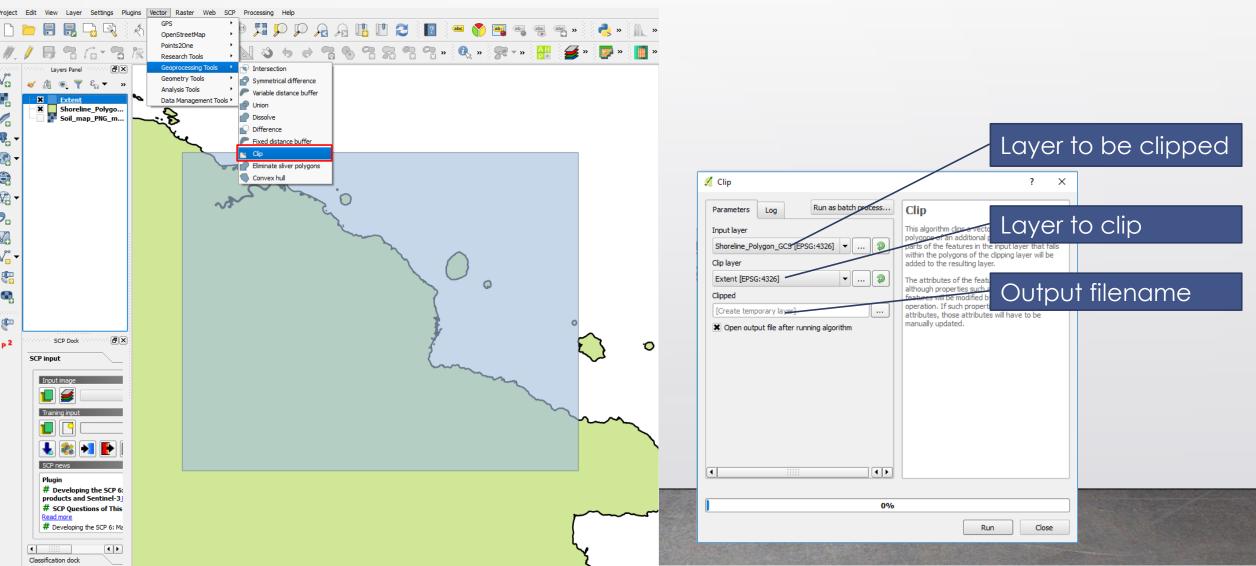
Converting point data to polygon data

10. Select Points2One under the Vector menu and set parameters



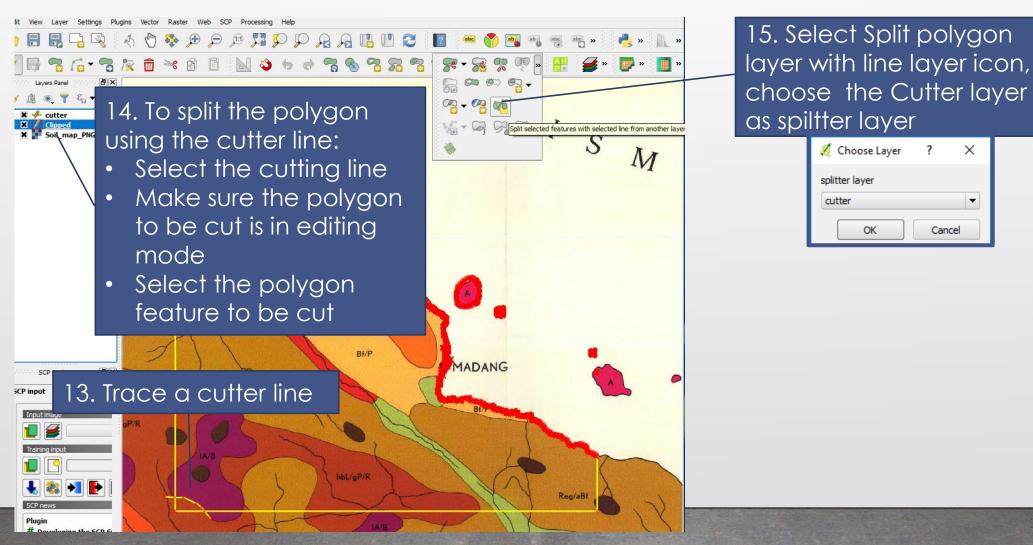
Clipping vector data

11. Select Clip under the Vector menu/Geoprocessing tools

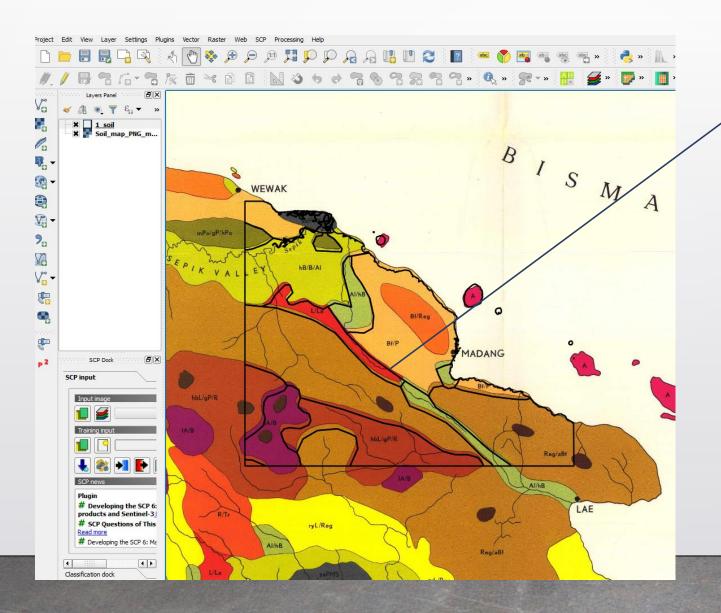


Splitting polygon layer with line layer

12. Create a cutter shapefile to split the polygon

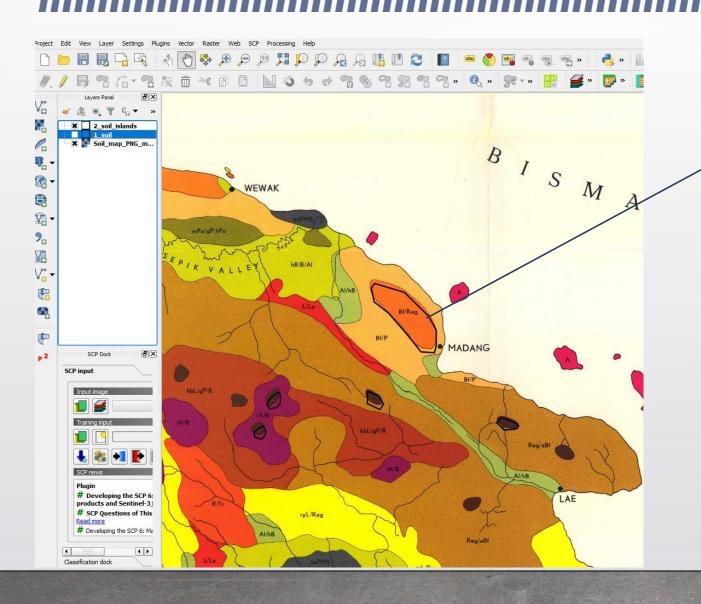


Splitting polygon layer with line layer



16. Do for all boundaries; final layer should look like this

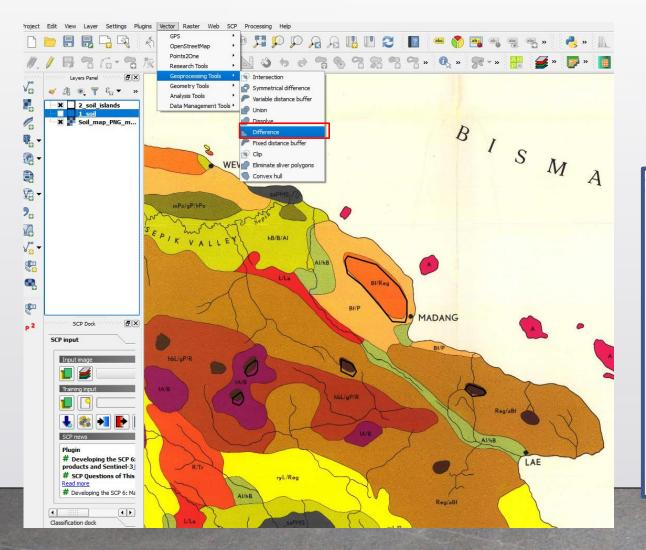
Digitizing island features

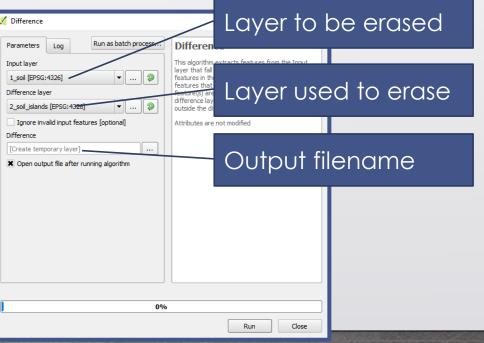


17. Create a new polygon shapefile and trace all island features

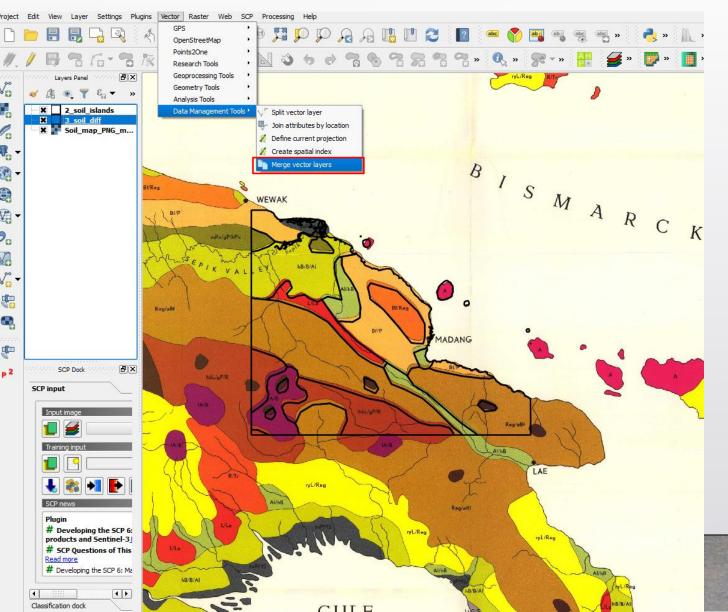
Erasing island features in the main polygon layer

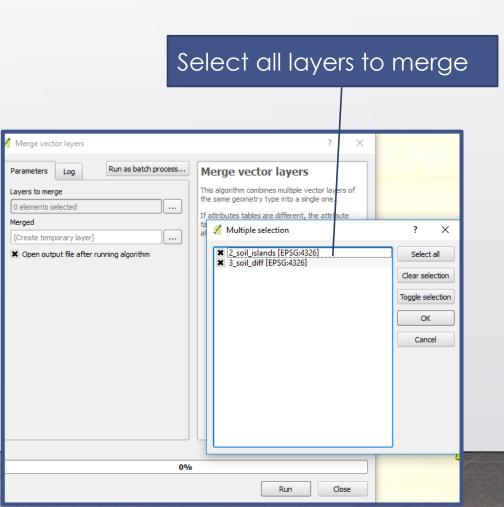
18. Select Difference under Vector menu/Geoprocessing tools





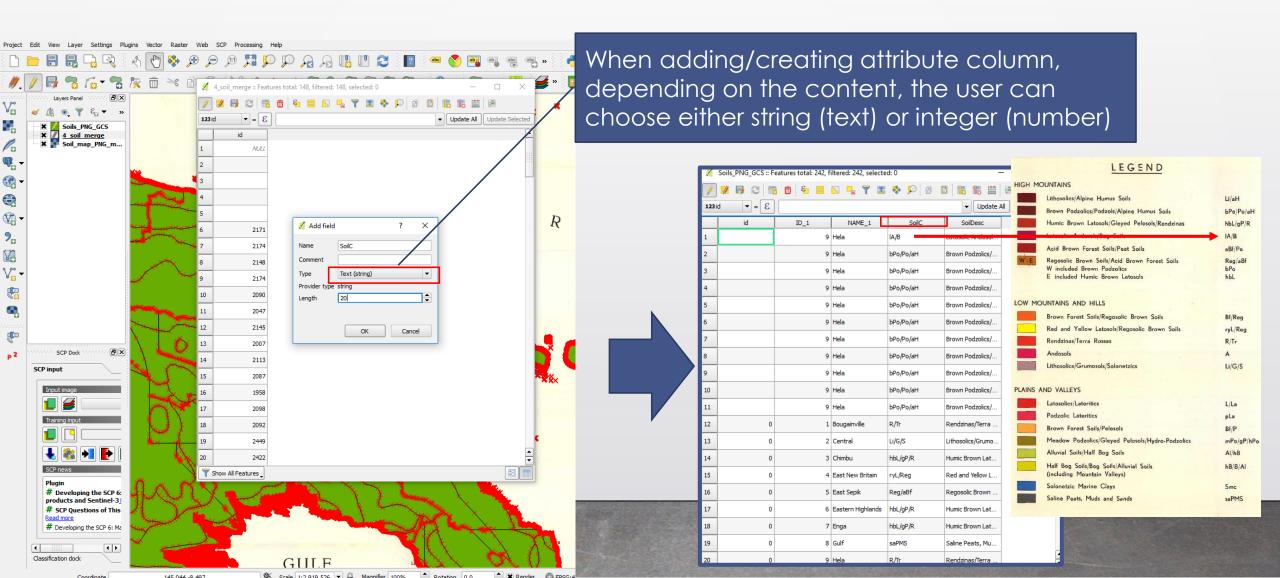
Merging island features with the main polygon layer





Updating soil attributes

19. Select New Field to create a new attribute column

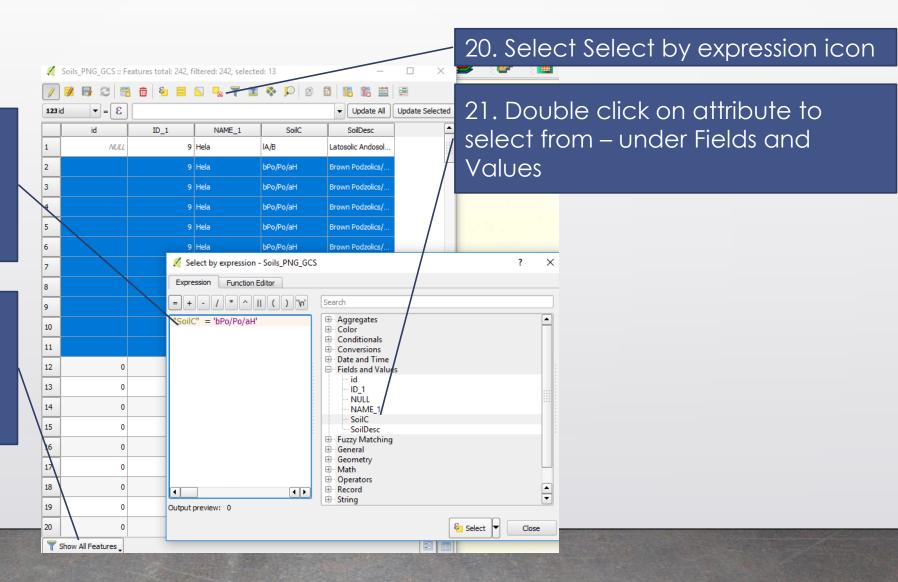


Batch selecting features

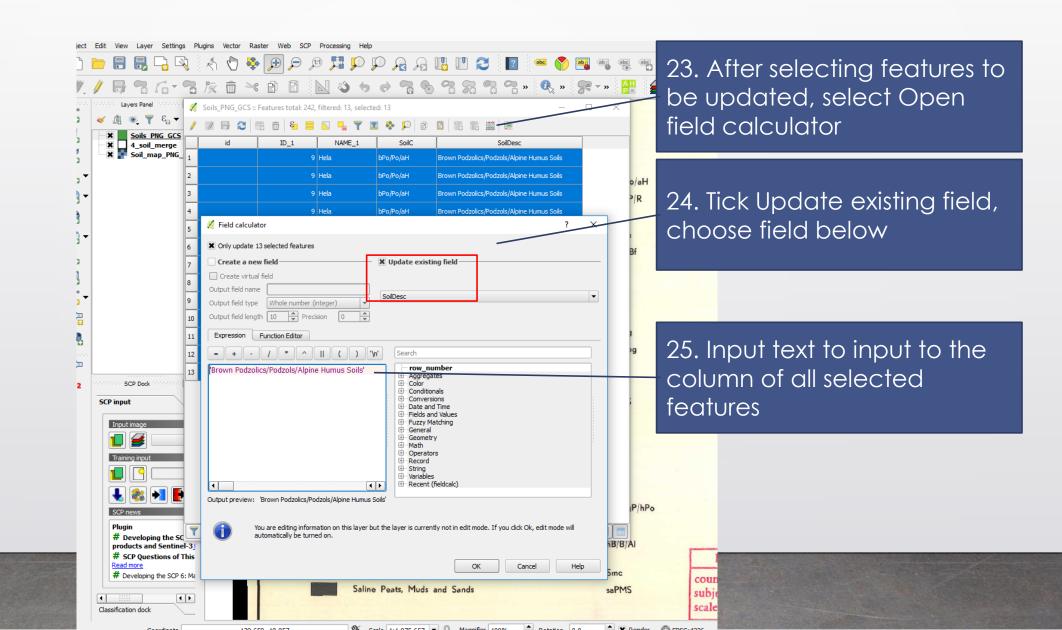
22. Input equation in the box

→ particular attribute to be
selected should be enclosed
in quotes (to signify a text
attribute)

22. Select Selected Features to display only selected features



Batch updating features



Thank you