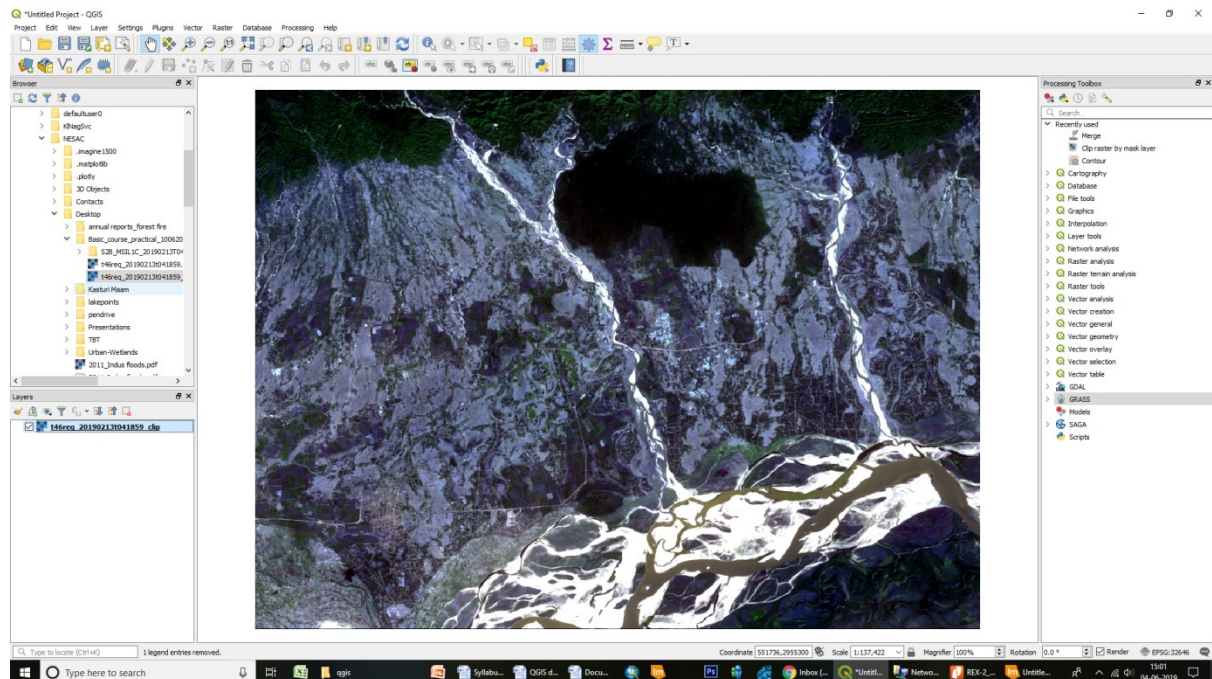
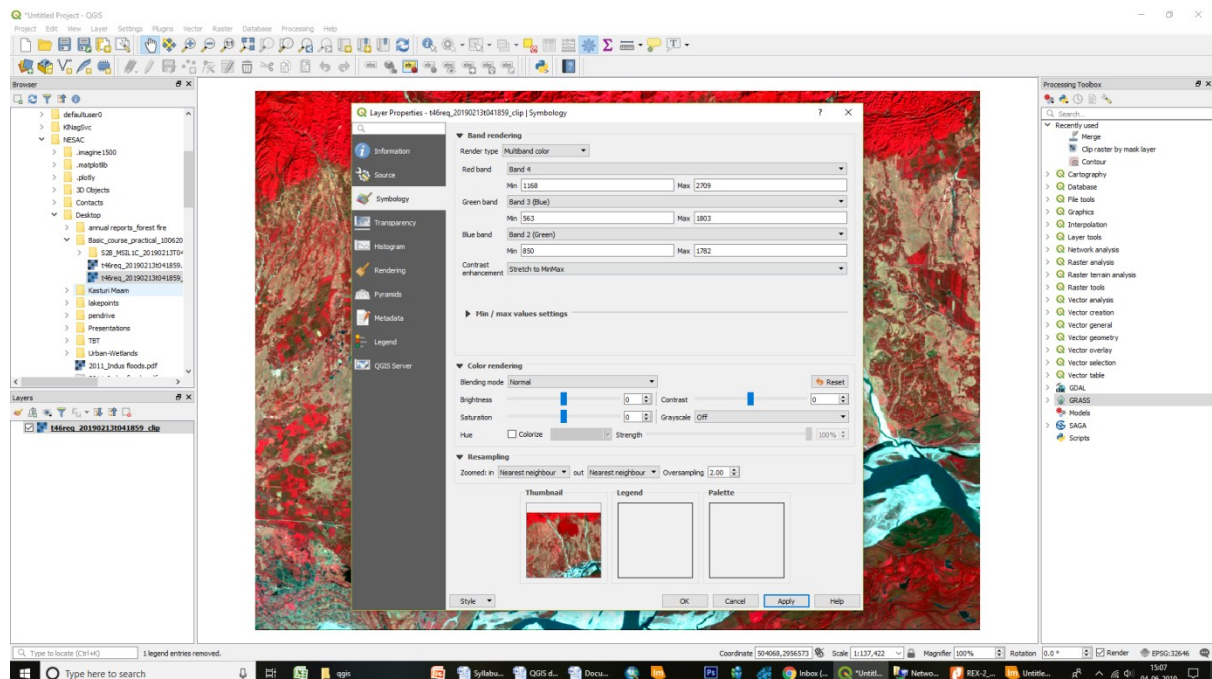


Handout on creation of vector layers and map composition

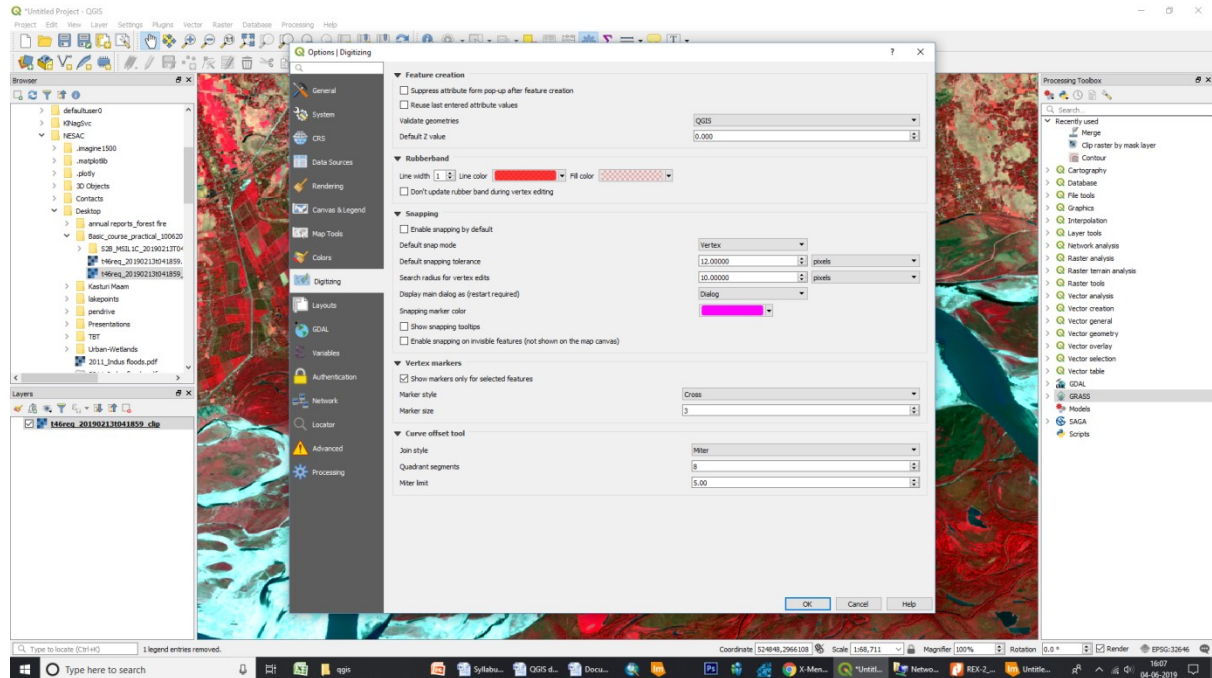
1. Browse to the location of the file you want to add and click and drag the file to the QGIS window.



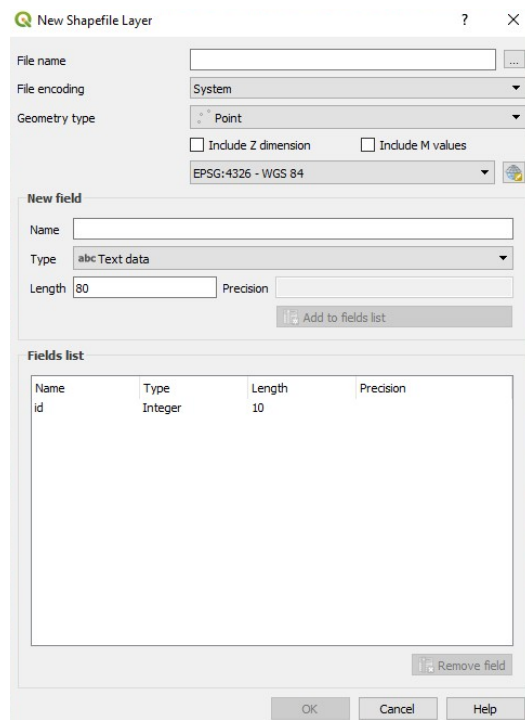
2. Change the display of the image to FCC by right-clicking on the image and setting the bands in the Symbology tab of Layer Properties dialog box. Click on apply to apply the settings and click on OK.



- We now need to create different features from this image. We will extract Roads/railway line, forest, plantation, agriculture, water, sand. Before we start, we need to set default Digitizing Options. Go to Settings ► Options ► Digitizing and set the Default snap mode to To vertex and segment. This will allow you to snap to the nearest vertex or line segment.

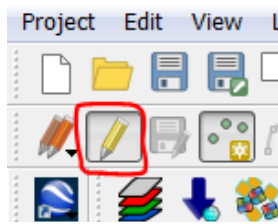


- We will now create the roads layer before digitizing. Select Layer ► Create Layer ► New Shapefile Layer. Set the filename, geometry type (line)

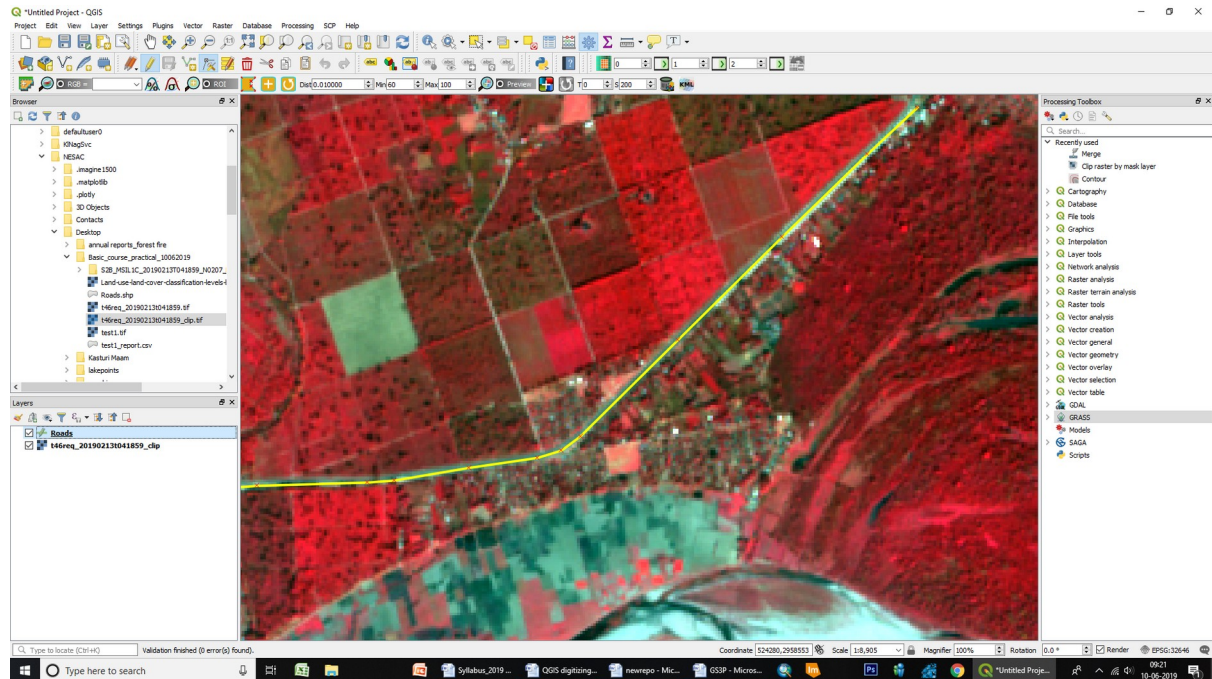


5. Go to Edit> Add Feature. In case this is not selectable, click the toggle editing button on the taskbar.

6. Click on a line. Right proceed to layer edits.



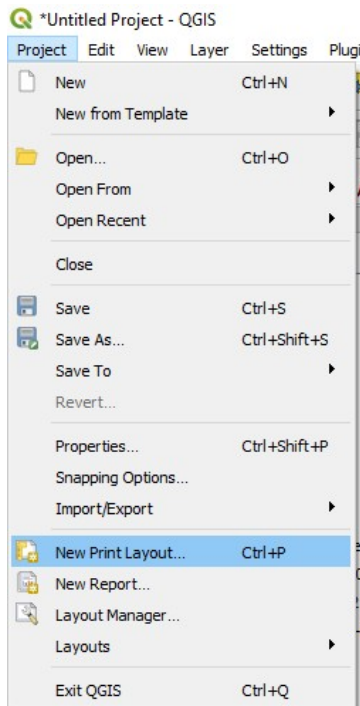
Edit>Add Feature. Click on the map to digitize click to end the line. Enter the ID values and digitize all the features. Remember to save



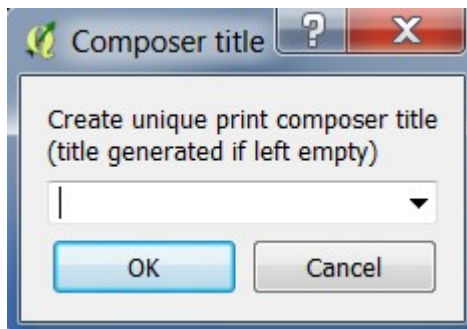
7. Create different shapefiles for other features with different geometry types as required and digitize them.

8. After completing the digitization you can play with the styling and labelling options in layer properties to create a nice looking map from the data you created.

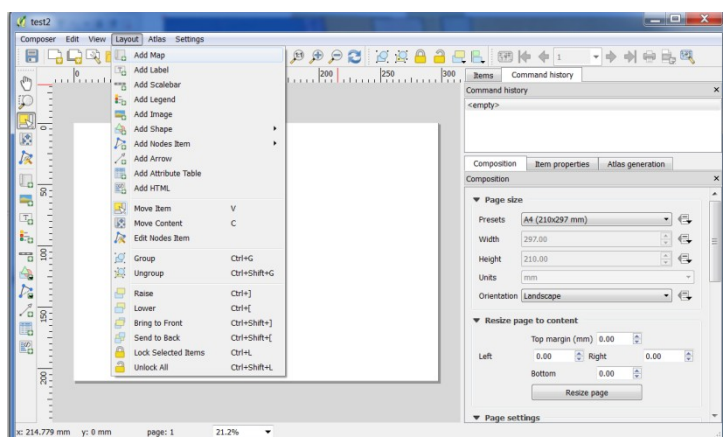
9. For generating a map from the image, we need to place a north arrow, legend and scale bar. For this, go to Project>New Print Layout.



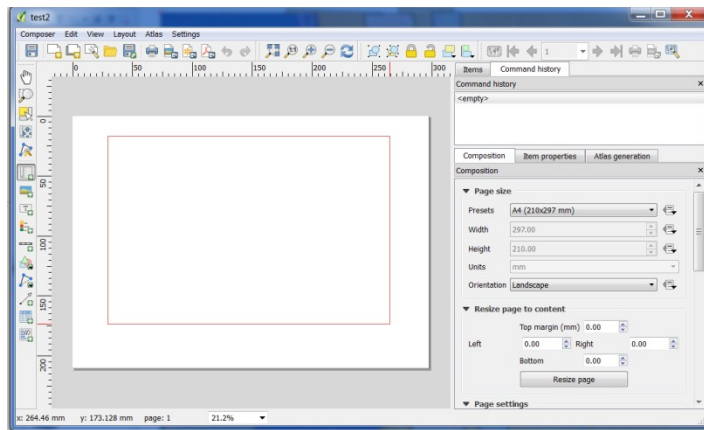
10. Provide a name for your print composer.



11. In the window that appears, click on Layout>Add Map.



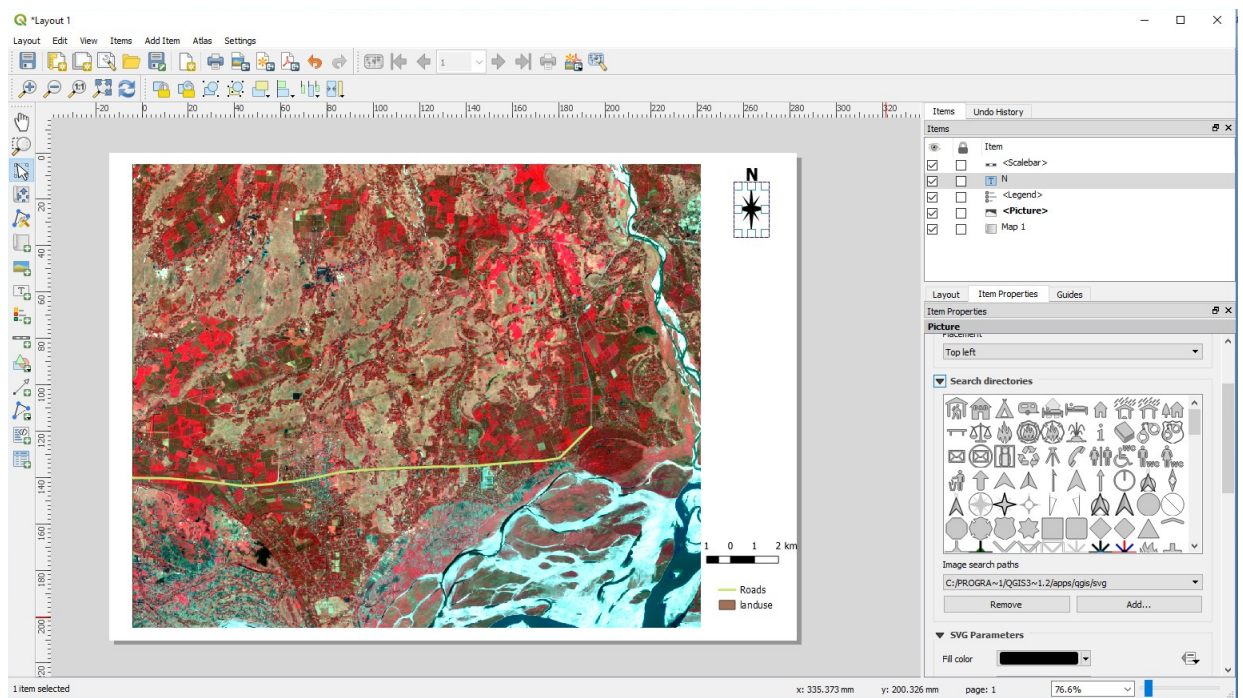
12. Click and drag a rectangle across the white screen to display your results in the window.



13. Go to Layouts > Add legend to add the legend. We may modify the fonts, font sizes, formatting and columns in the legend from the Item Properties window on the right.

14. Go to Layouts > Add scale Bar to add the scale bar. Modifications can be made in the item properties window.

15. Go to Layouts > Add Image to add the north arrow of your preference from the item properties > search directory on the right hand window.



16. You may now export the map from Composer > Export as image.