

Aim: - Apply Different Unsupervised Classification Techniques to Classify the Satellite Image

Step 1:Open QGIS and select band set from SCP & DOCK and Open a file from Multiband image list. We will select already created all 7 band color raster image.

Step 2:After opening the image, we will go to Band Processing > Clustering and change Number of Classes to 5.

Step 3:After Click on Run you have to give the name of your output and save the file. After Running K-mean you will get the output

Step 4:Now again go to clustering and select ISODATA and Change ISODATA minimum class size in pixel to 20

Step 5:Then Run and give output file name and save and wait for the classification iteration.

Now both k-mean and ISODATA has done, here you can see all the bands from ISODATA and

k-mean which are unlabeled not classified color according to geography of the image.

Step 6:Now go to plugin and install MapSwipe Tool.

Now we have to change labels and give proper color and names according to image geography

Here, we will select k-mean output because it has more band and color to distinguish detail in image.

Step 7:To Change color and label just double click the band color and also change labels

After Classifying and giving proper labels and color on k-mean band output.

Step 8:Using MapSwipe Tool We can see the difference between two images side by side