Unsupervised Classification

Aim: To download Data and perform Unsupervised classification for

a) Forest

b)Agriculture

c)Water

d)Build-Up area

e)Open area

Symbol used: For the above mentioned areas we used colour scheme respectively as follows: a) Dark Green

b) Yellow

c) Blue

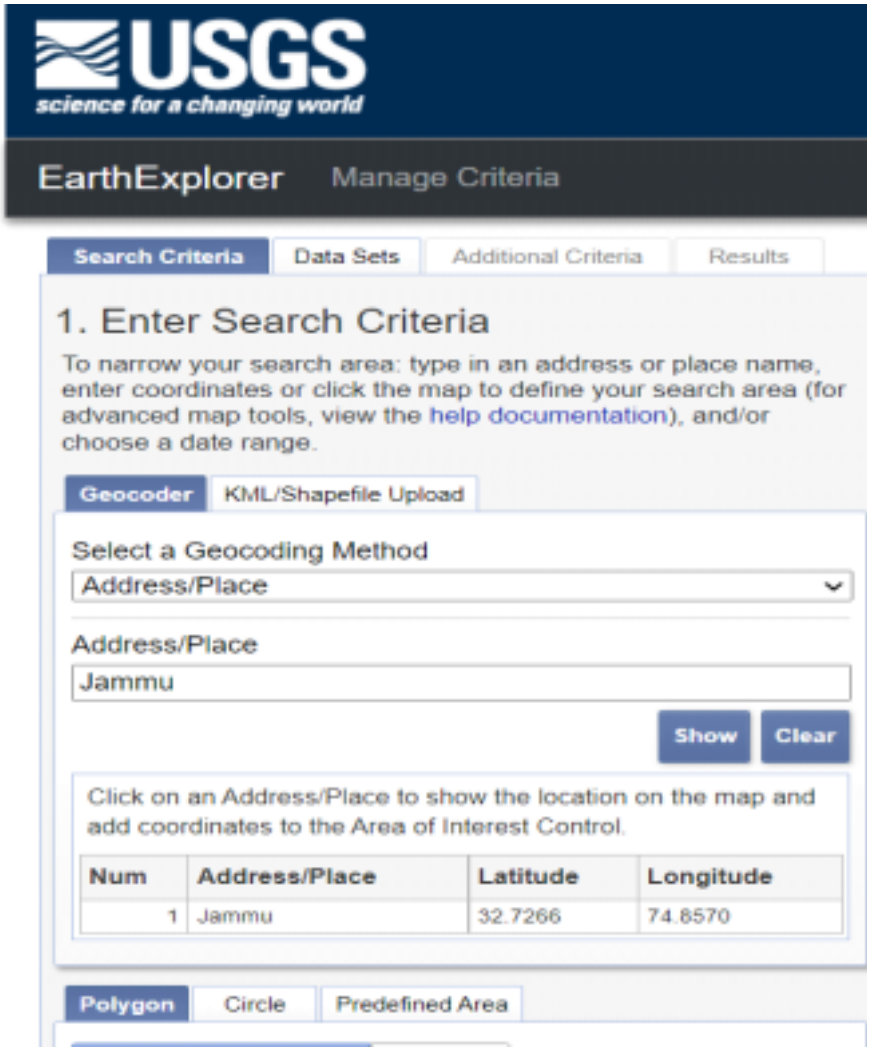
d) Red

e) White

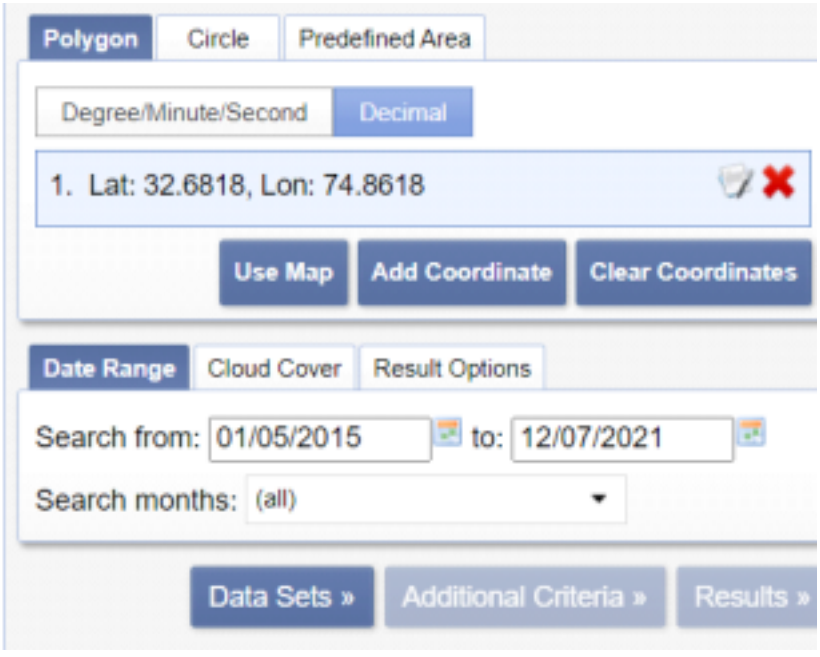
Procedure:

DATA DOWNLOAD

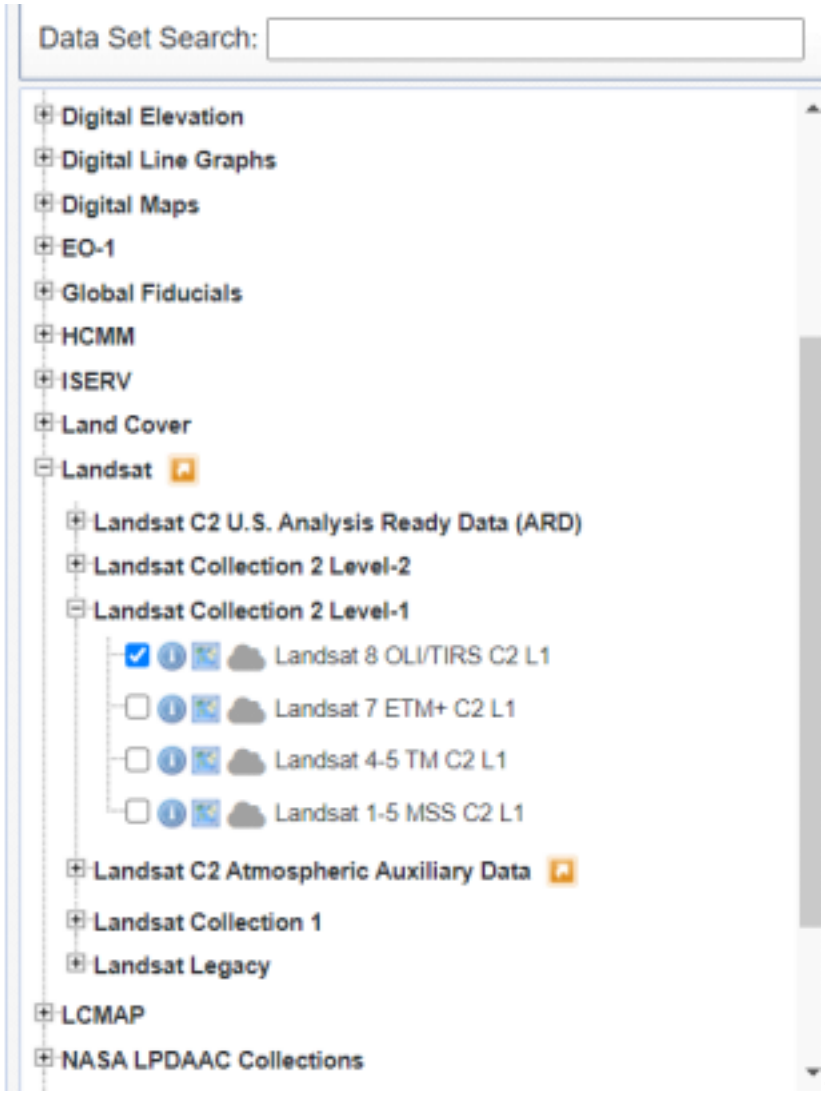
1) Search for the area in the earth explorer that we need.



2) After finding area select the date range of the collected data also set cloud cover range and click on Data Sets.

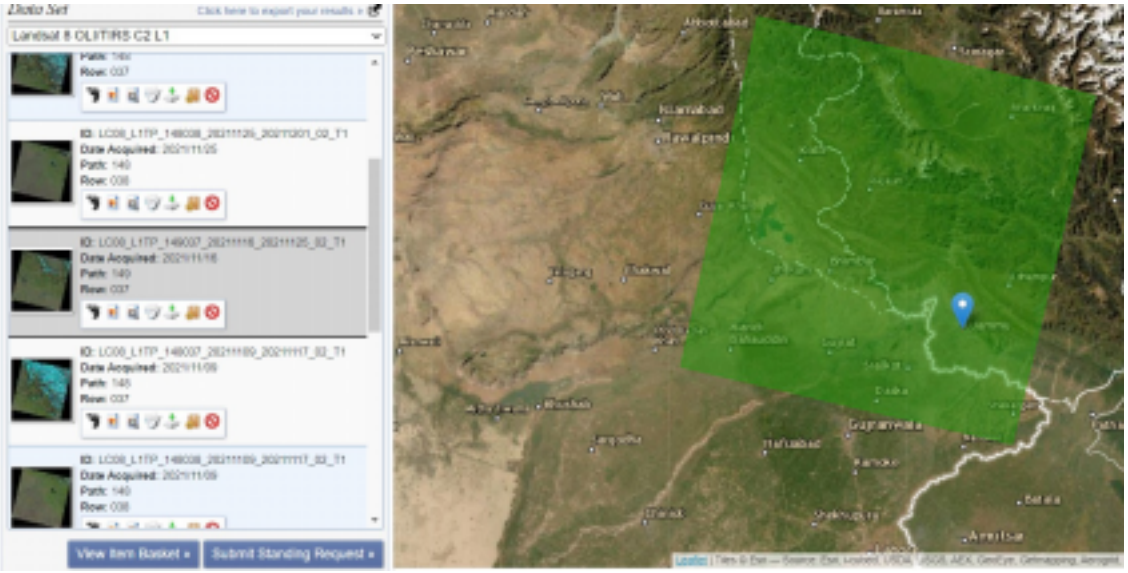


3) Select the below Data set and get results.



4)

Look for the suitable data set by seeing it's footmark and then download it.

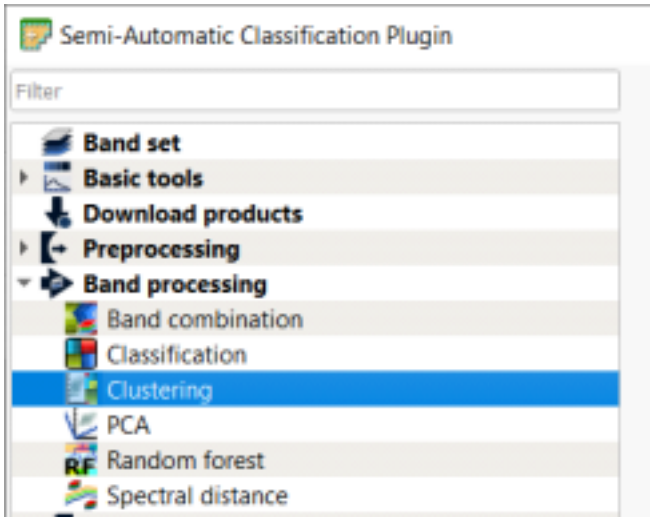


CREATING UNSUPERVISED CLASSIFICATION

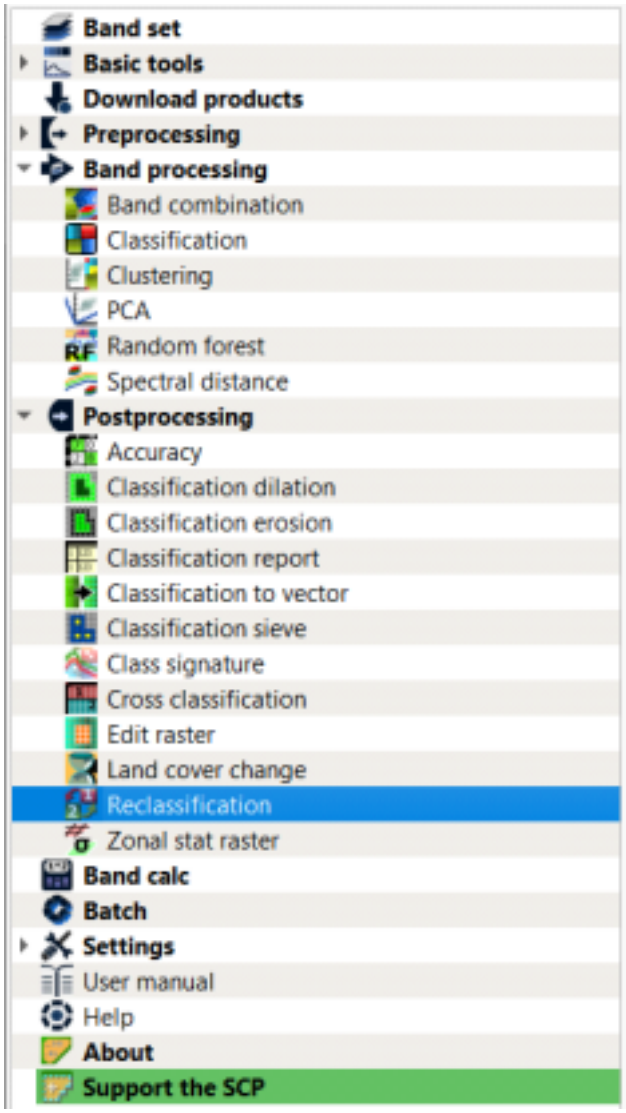
1)Install the SCP plugin

2) Unzip the downloaded file and browse the extracted files

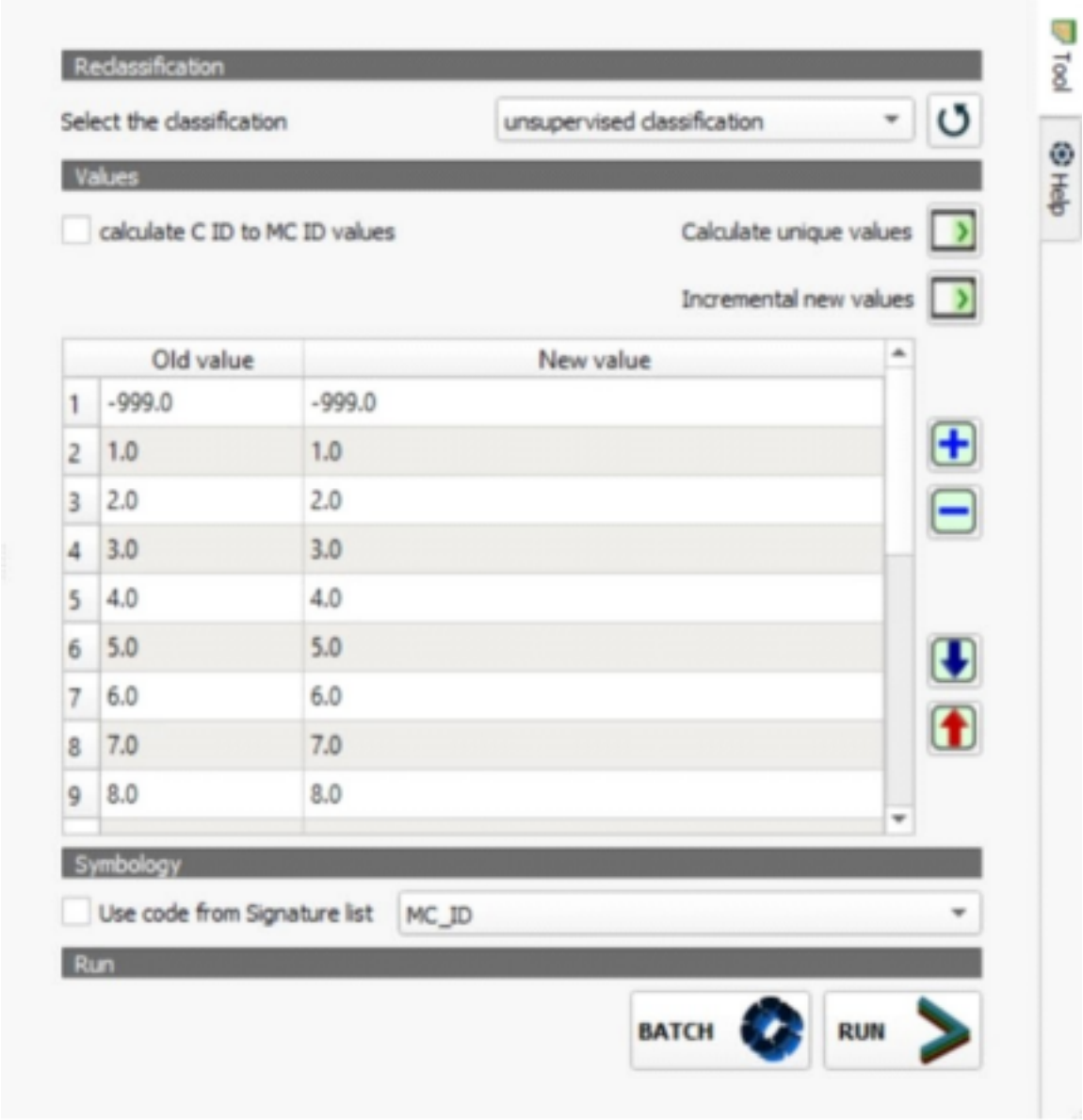
3) Cluster the above downloaded data for one unsupervised classification



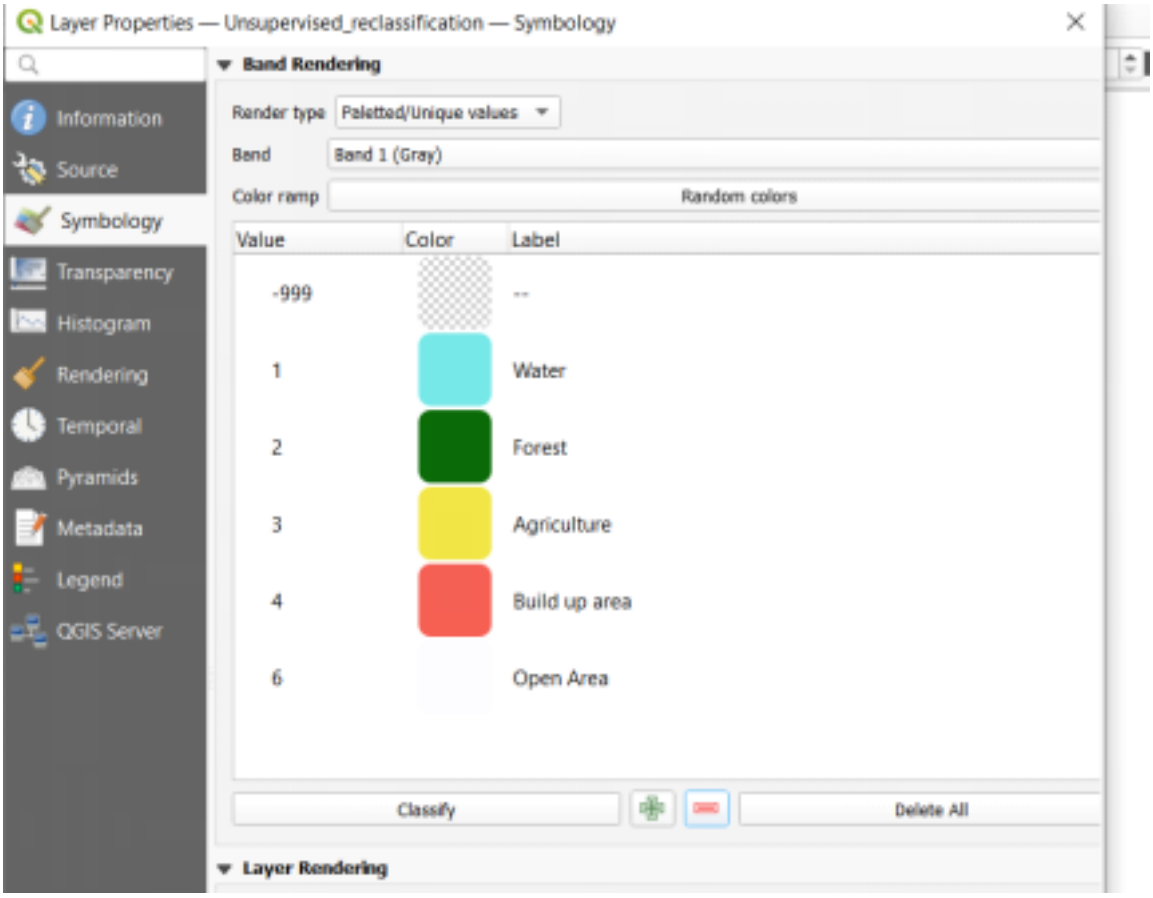
4)ow in post processing select reclassification to create a different layer which will be having the data of the required, provide the new values of the band set and then run.



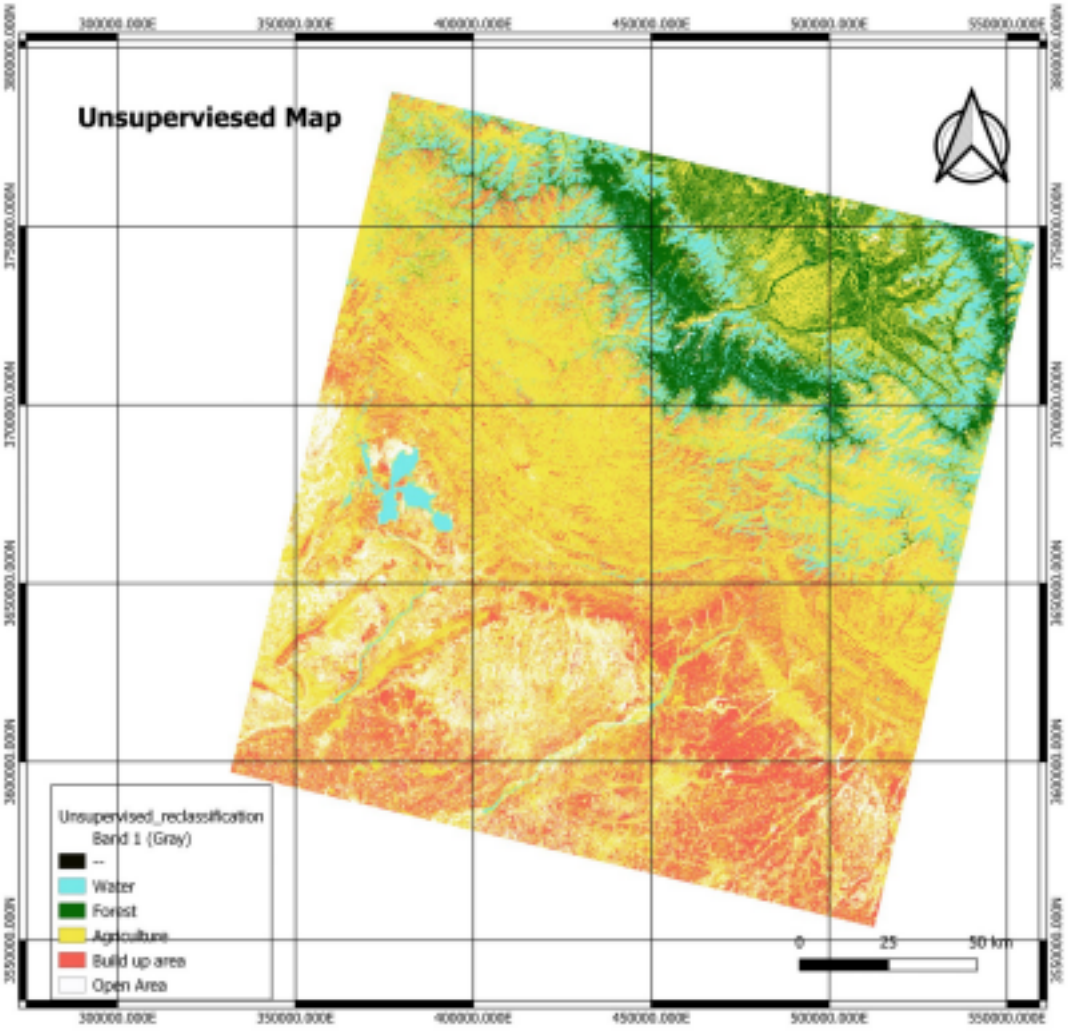
5)Change the colour of the selected bands and label them with their name



6)Print the layout (add north,grids,scale,legend,coordinates) and export it as image.



Conclusion:We created an unsupervised classiffication of an area whose exported image is attached below


Unsuperviesed Map
Unsupervised_reclassification
Band 1 (Gray)
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Water
Forest
Agriculture
Build up area
Open Area
0
25
50 km