UNSUPERVISED CLASSIFICATION

Aim: To download Data and perform Unsupervised classification for

a) Forest
b)Agriculture
c)Water
d)Built Up Area
e)Open Area

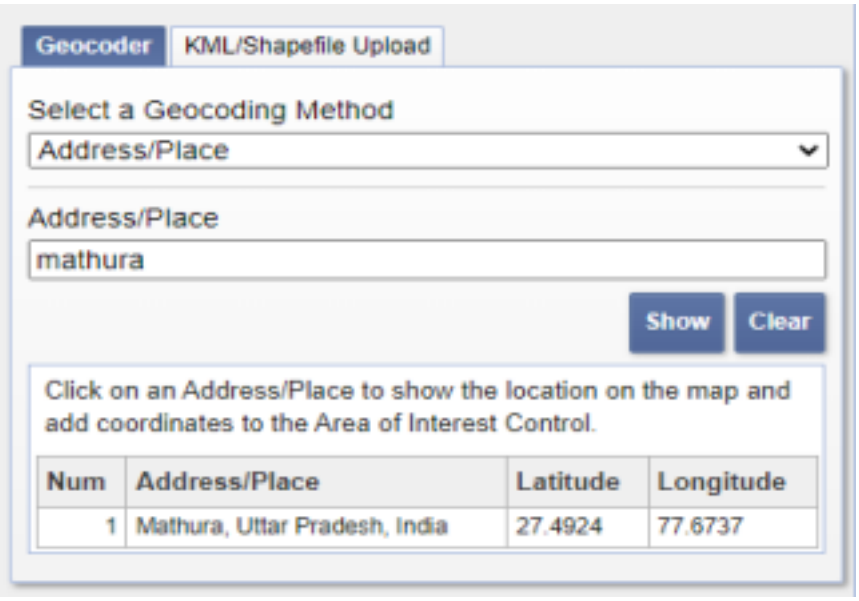
Symbol used: For the above mentioned areas we used colour scheme

a) GREEN
b) LIGHT GREEN
c) BLUE
d)RED
e)GRAY respectively

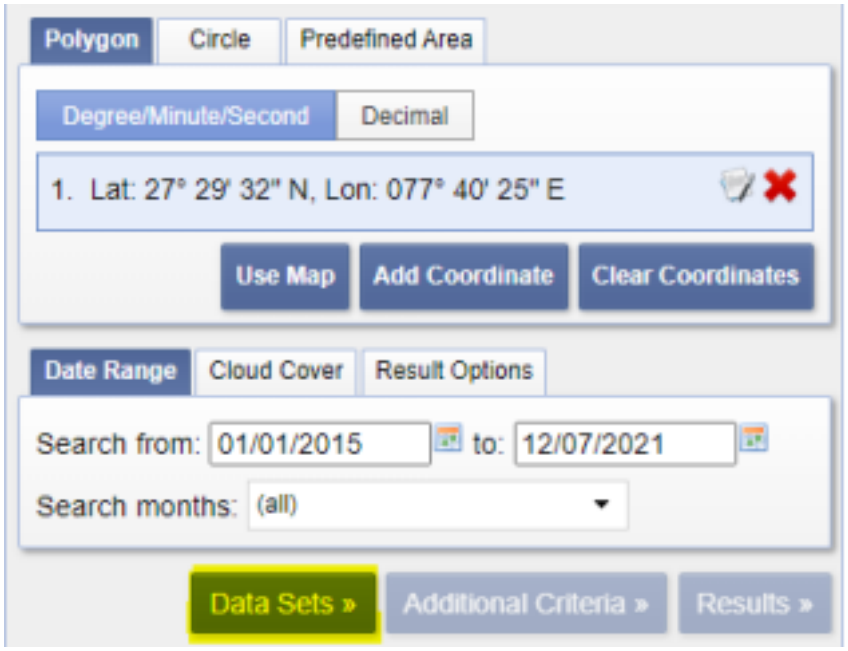
Procedure:

DATA DOWNLOAD

1) search for the area in the earth explorer

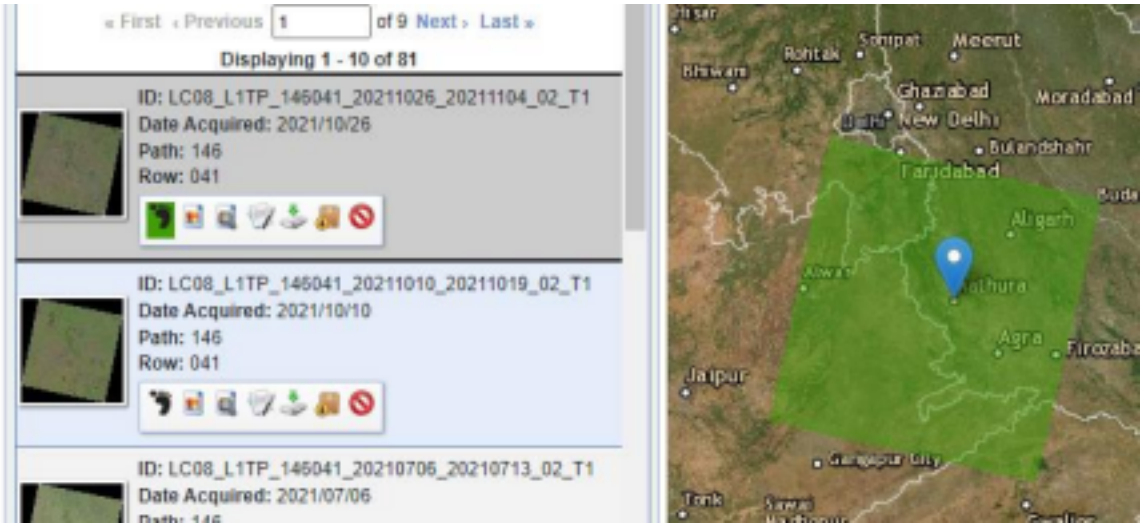


2) After finding area select the date range of the collected data and set cloud cover range and go for Data Sets



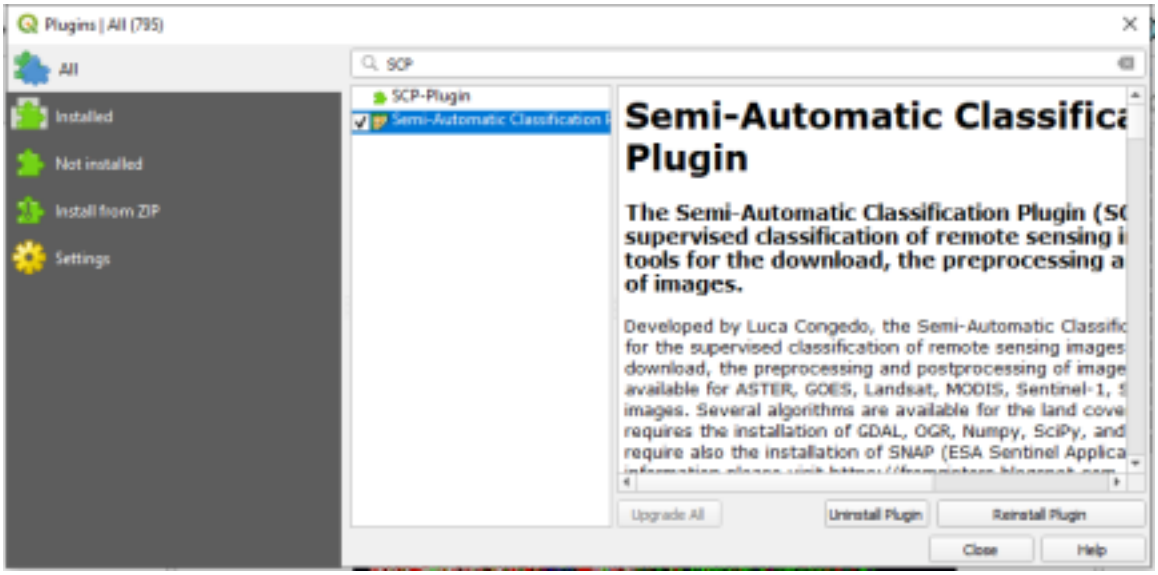
3) Select the below Data set and get results

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



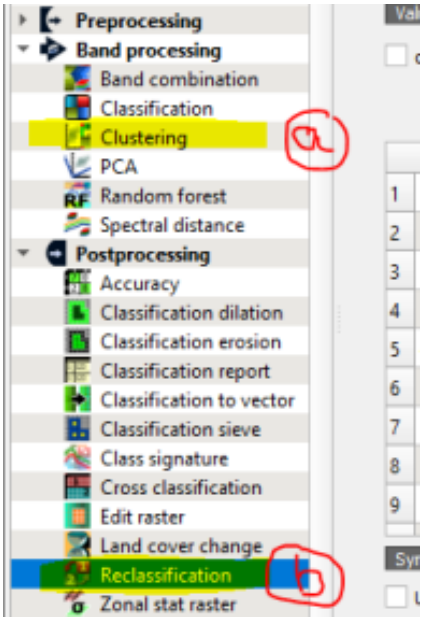
CREATING UNSUPERVISED CLASSIFICATION

1)Install the SCP plugin

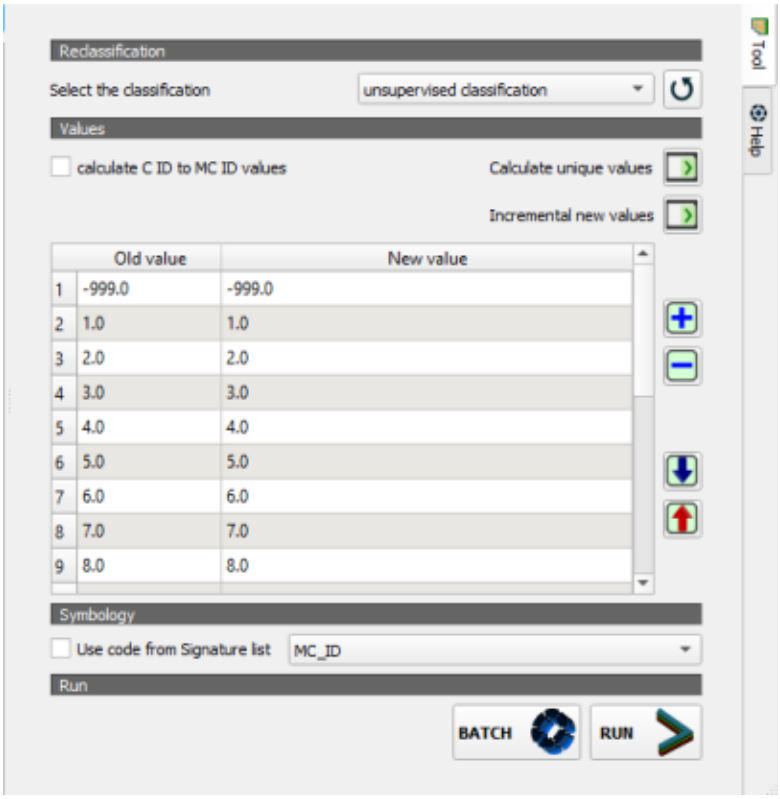


2)unzip the downloaded file and brouse the extracted files

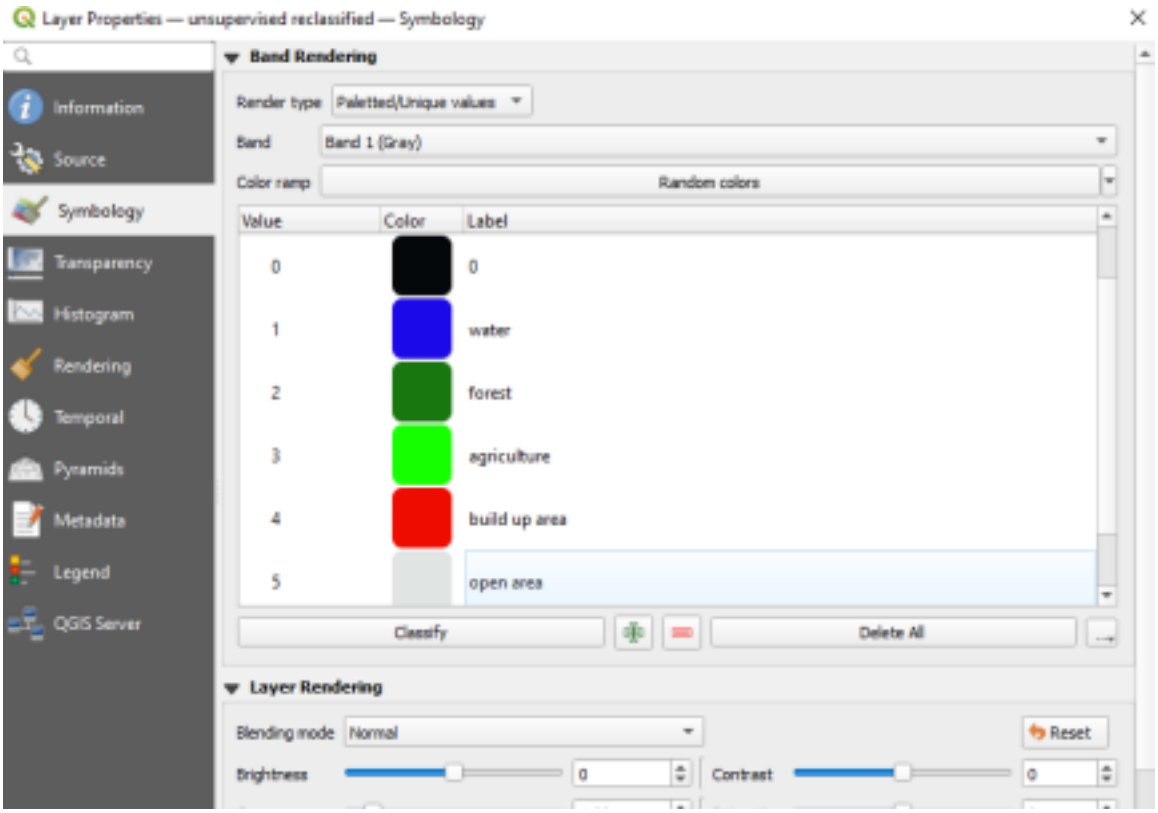
3) Cluster**(a)** the above downloaded data for one unsupervised classification



4)Now in post processing select reclassification**(b)** 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