UNSUPERVISED CLASSIFICATION

Aim: To download Data and perform Unsupervised classification for Forest, Built Up Area, Agriculture, Open Area, Water

Legend scheme:

i) "dark green " for forest

ii)"pink" for build up area

iii) "light green " for agriculture

iv)"yellow" for open area

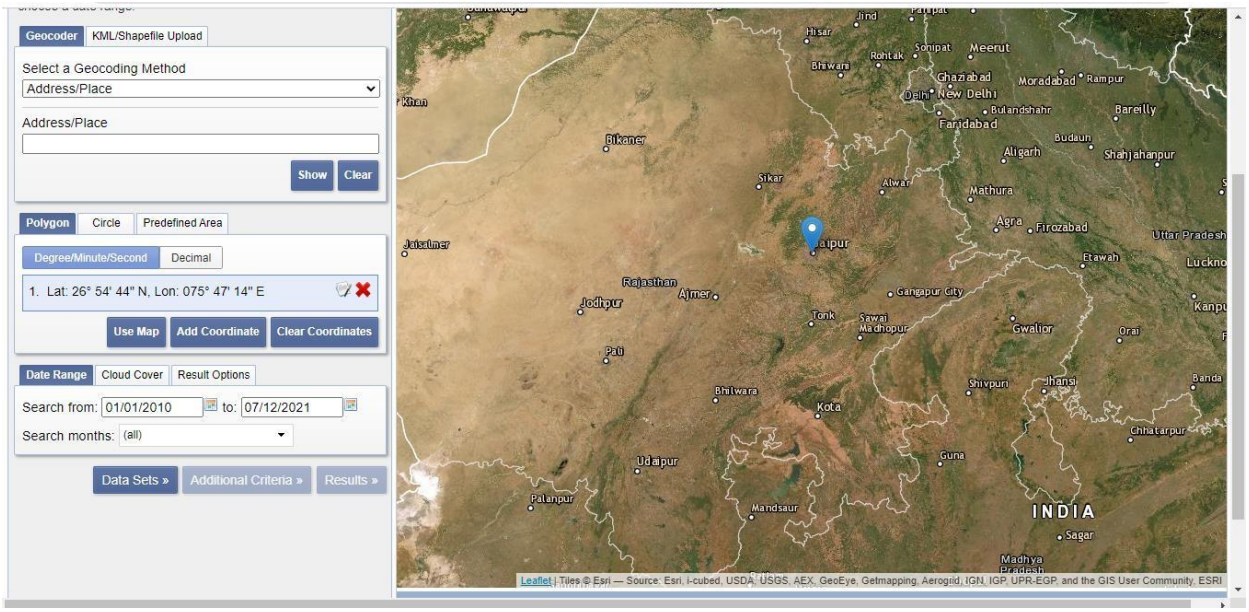
v) "blue" for water

Procedure:

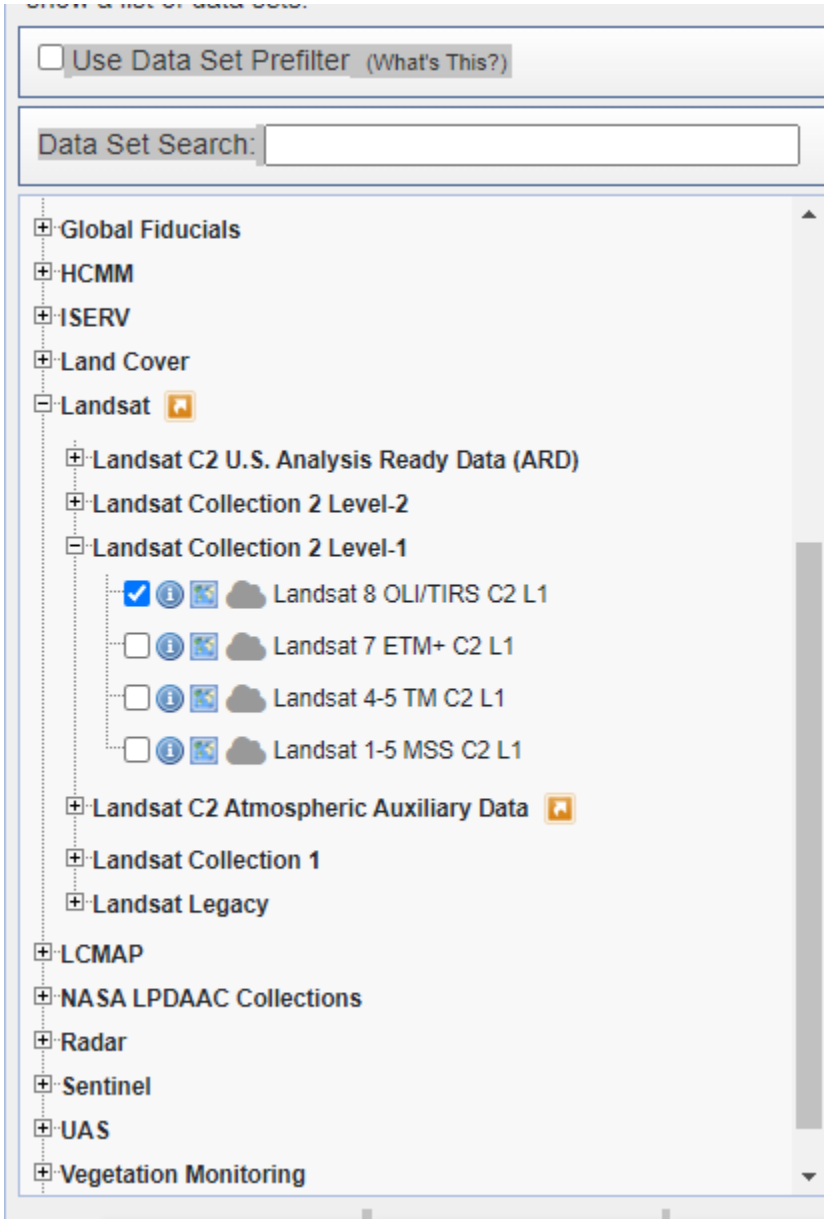
DOWNLOADING data

i) search for the area in the earth explorer and select the date range and cloud coverage

ii) go for Data Sets



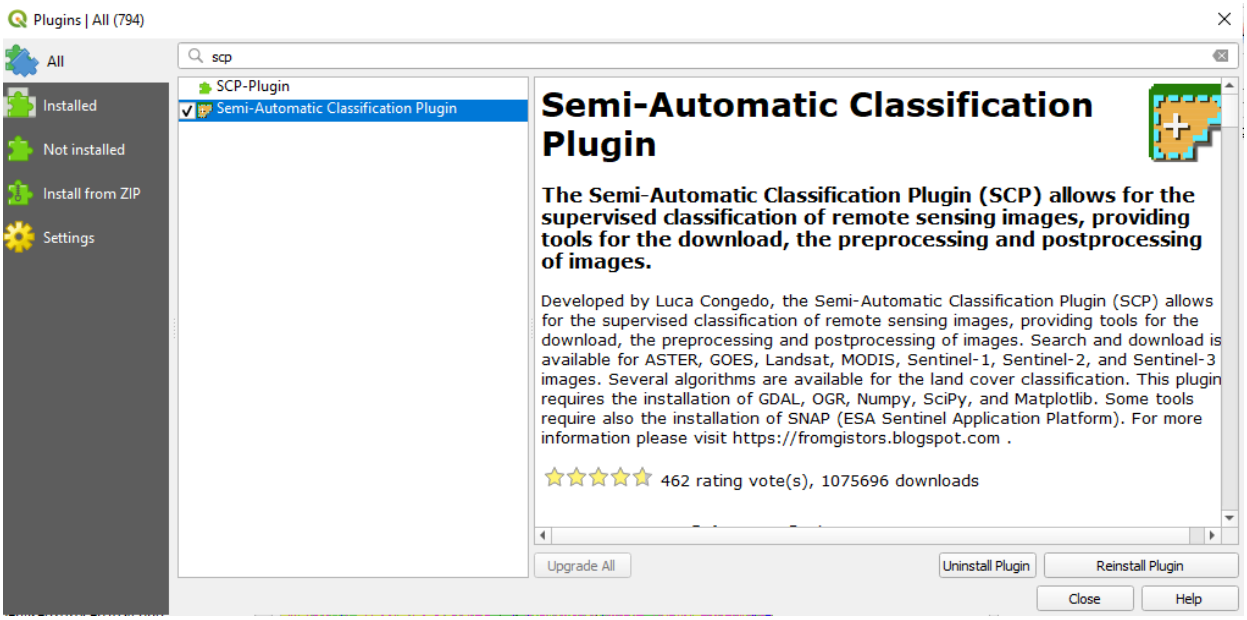
iii) Select landsat --> landsat collection 8 leven 1 --> Landsat 8



iv) select suitable datasat and download it.

CREATING UNSUPERVISED CLASSIFICATION

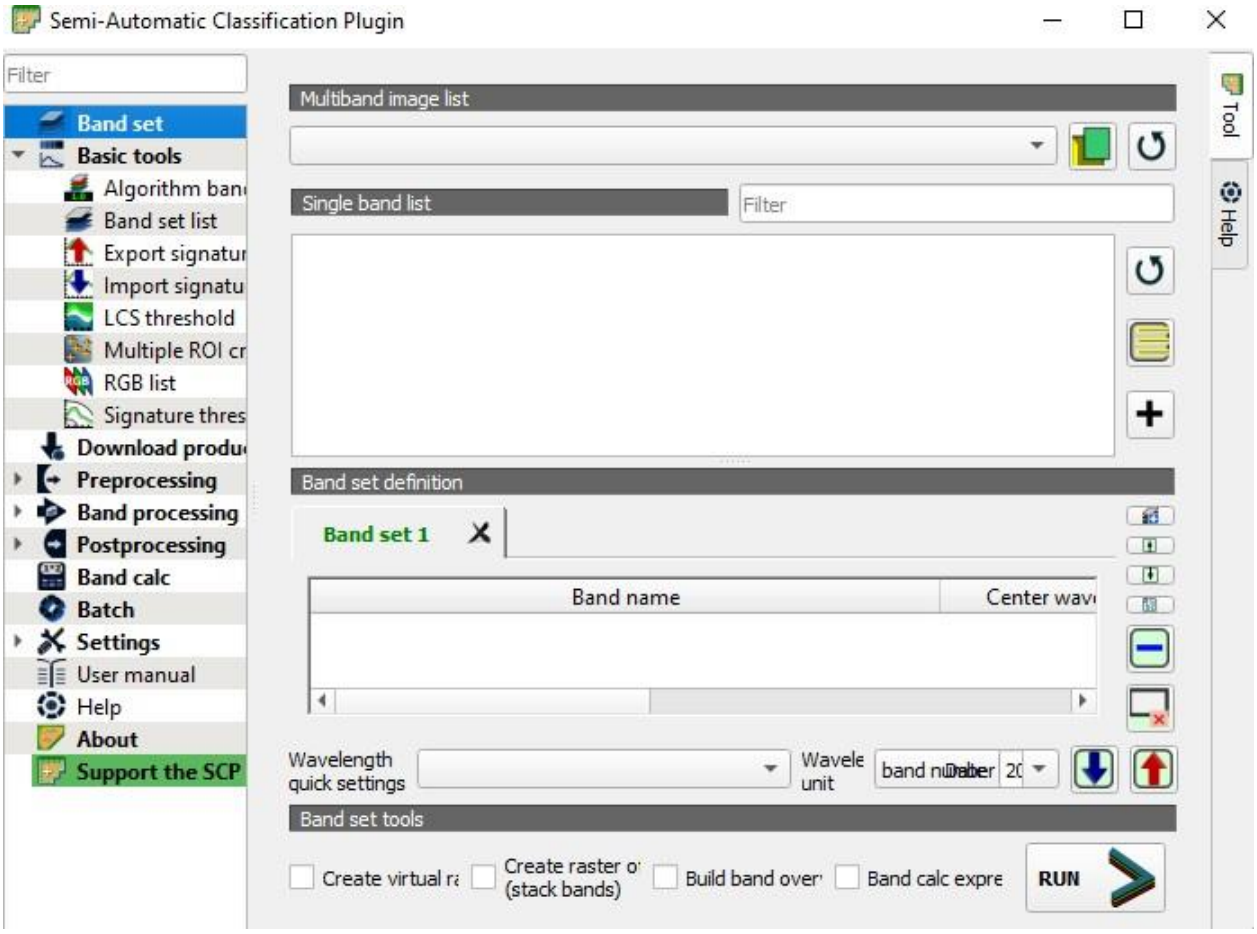
i)Install the SCP plugin



ii) unzip the downloaded file and browse the extracted files

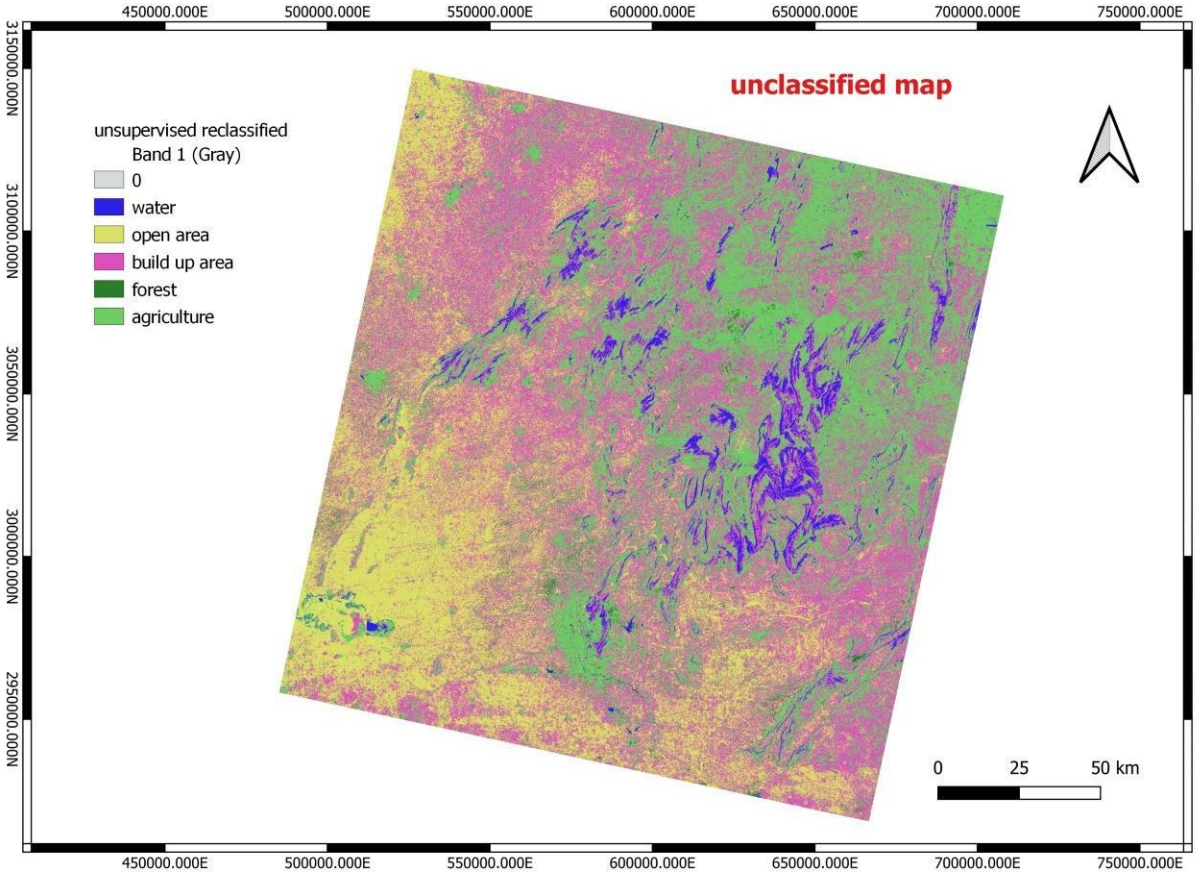
iii) Preprocess the data and save the stack --> Cluster the above downloaded data in band processing for one unsupervised classification

iv) Now in post processing select reclassification and provide the new values of the band set and then click run.



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

vi)Print the layout and export it as image.


unclassified map
unsupervised reclassified
Band 1 (Gray)
0
water
open area
build up area
forest
agriculture
0
25
50 km
450000.000E
500000.000E
550000.000E
600000.000E
650000.000E
700000.000E
750000.000E
3150000.000N
3100000.000N
3050000.000N
3000000.000N
2950000.000N