

Disaster Management Assignment 6 Vector Analysis

Calculating the distance matrix:

Shape files used: attached - place: Nizamabad

Data used:

Data Type: Landsat 7 ETM+ C1 Level 1

Data ID: LE07_L1TP_144047_20000229_20170213_01_T1

Data Acquisition Date: 29-FEB-00 (by satellite - Data time scale)

Path: 144

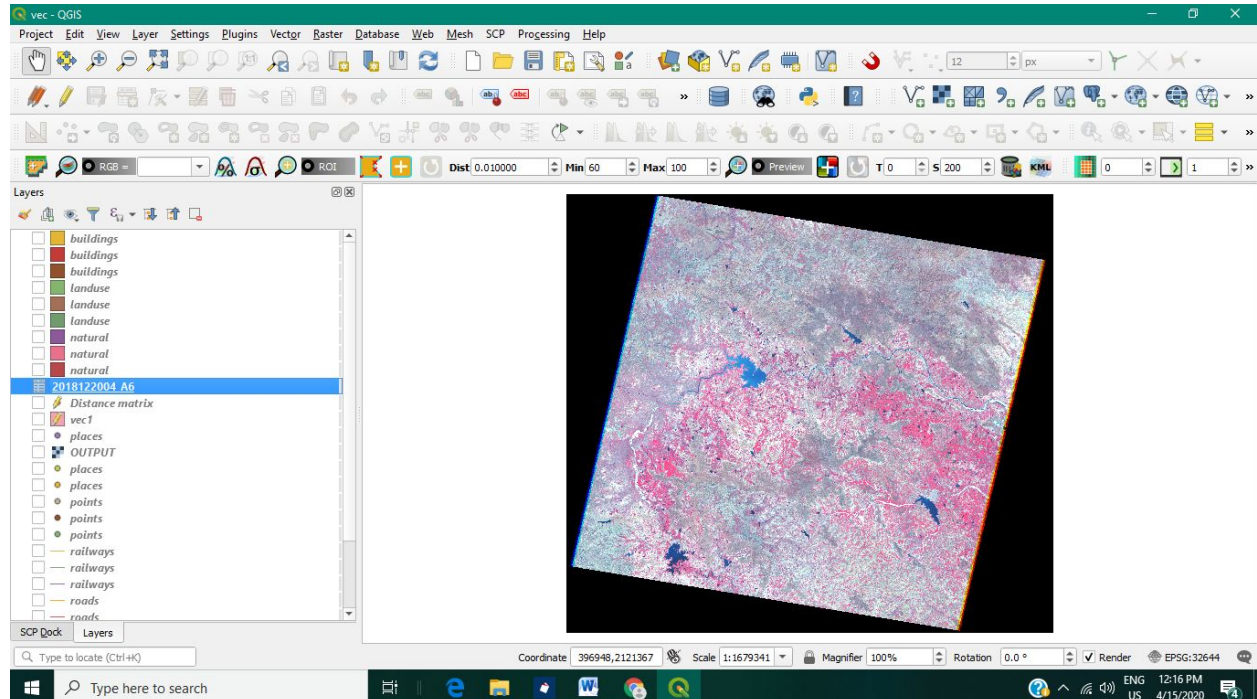
Row: 47

Area: Telangana, India

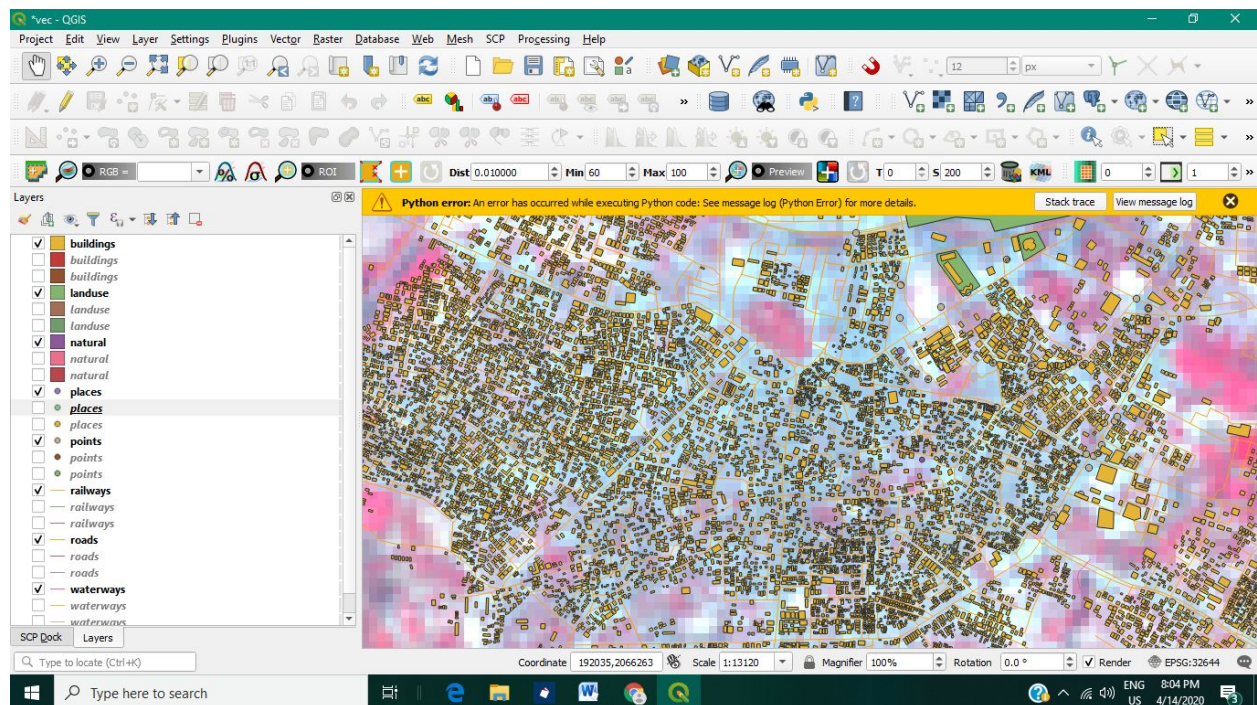
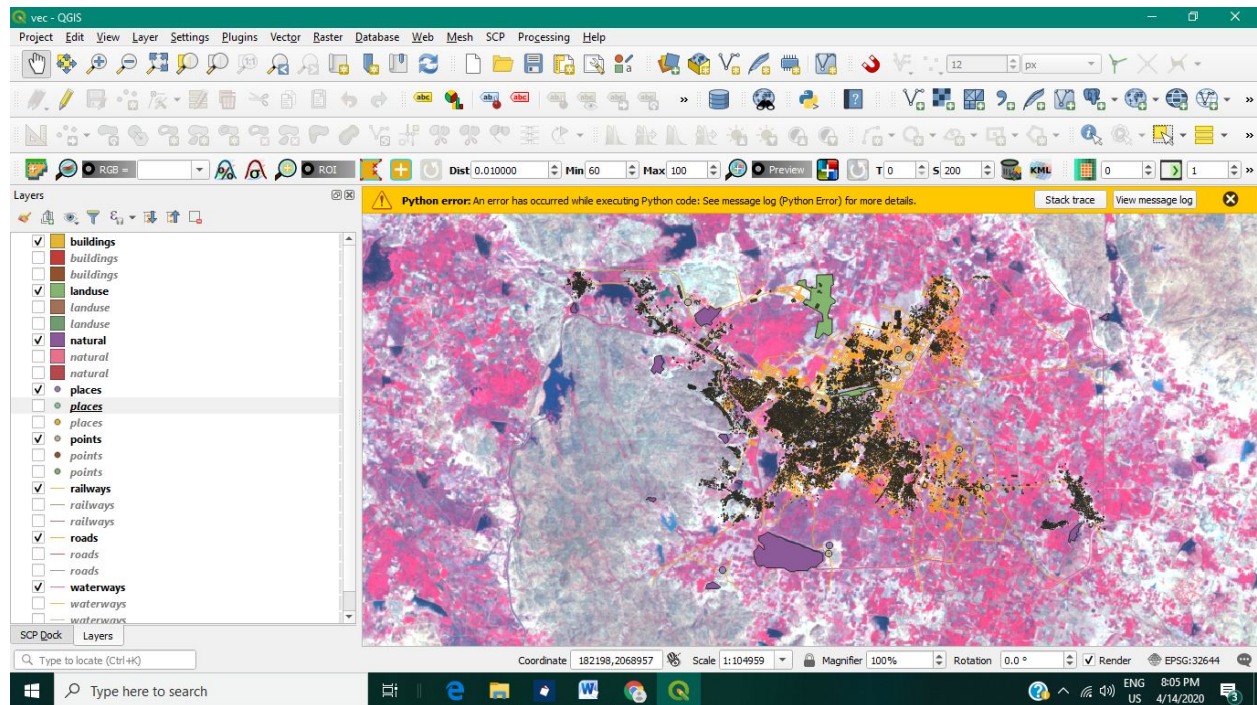
Google Drive Link for .TIF images:

https://drive.google.com/open?id=1q1dD2vx2yEZTx8xPDpN20vZ5U8vqKe_2

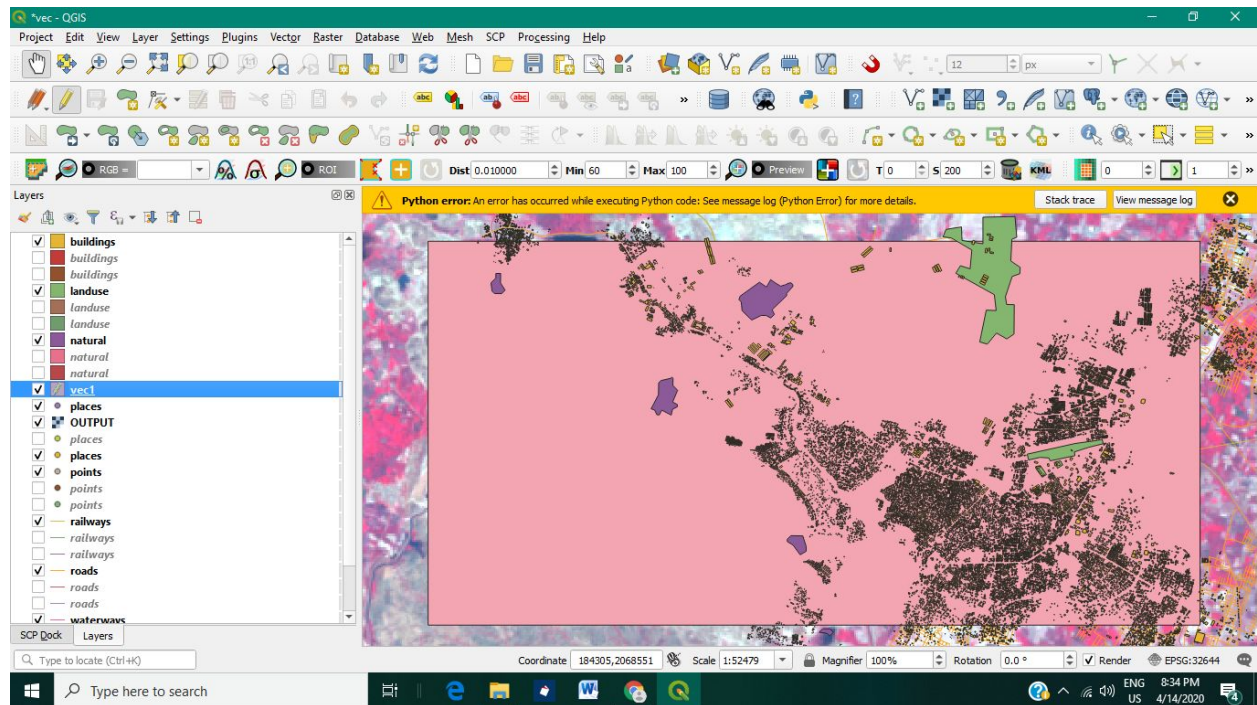
FCC 432:



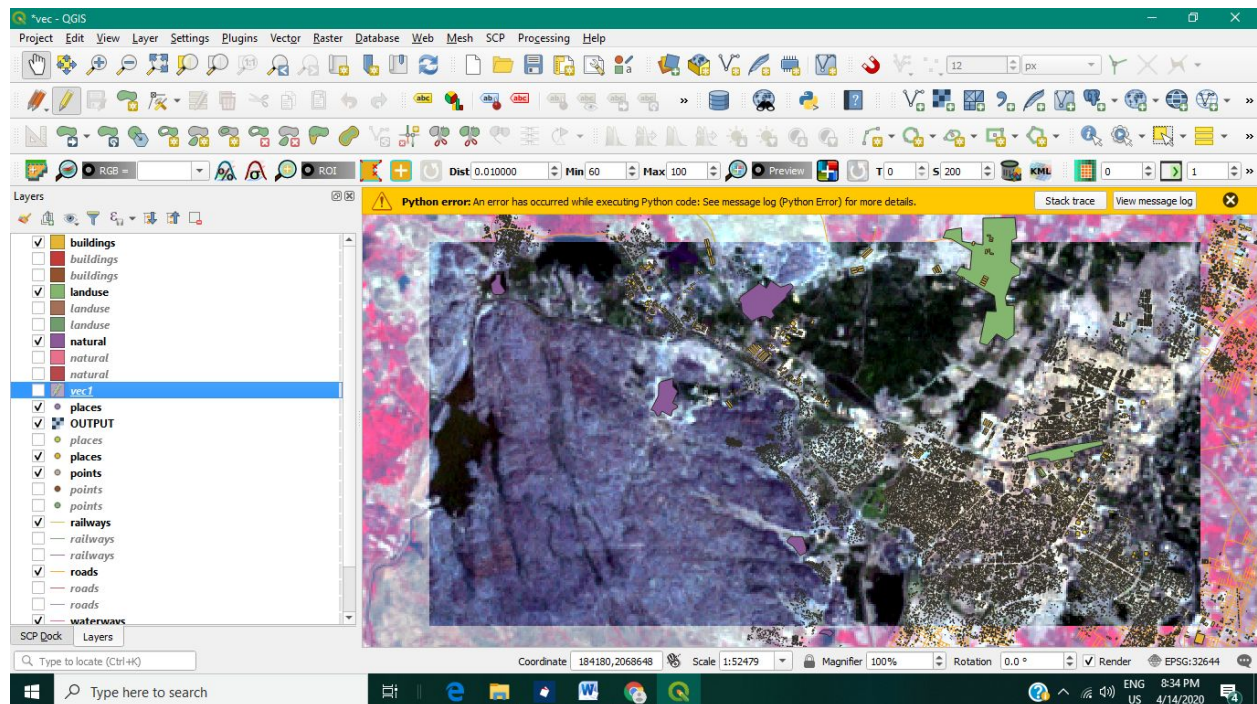
Loading the shape file as a vector layer:



Creating a Rectangular shapefile:

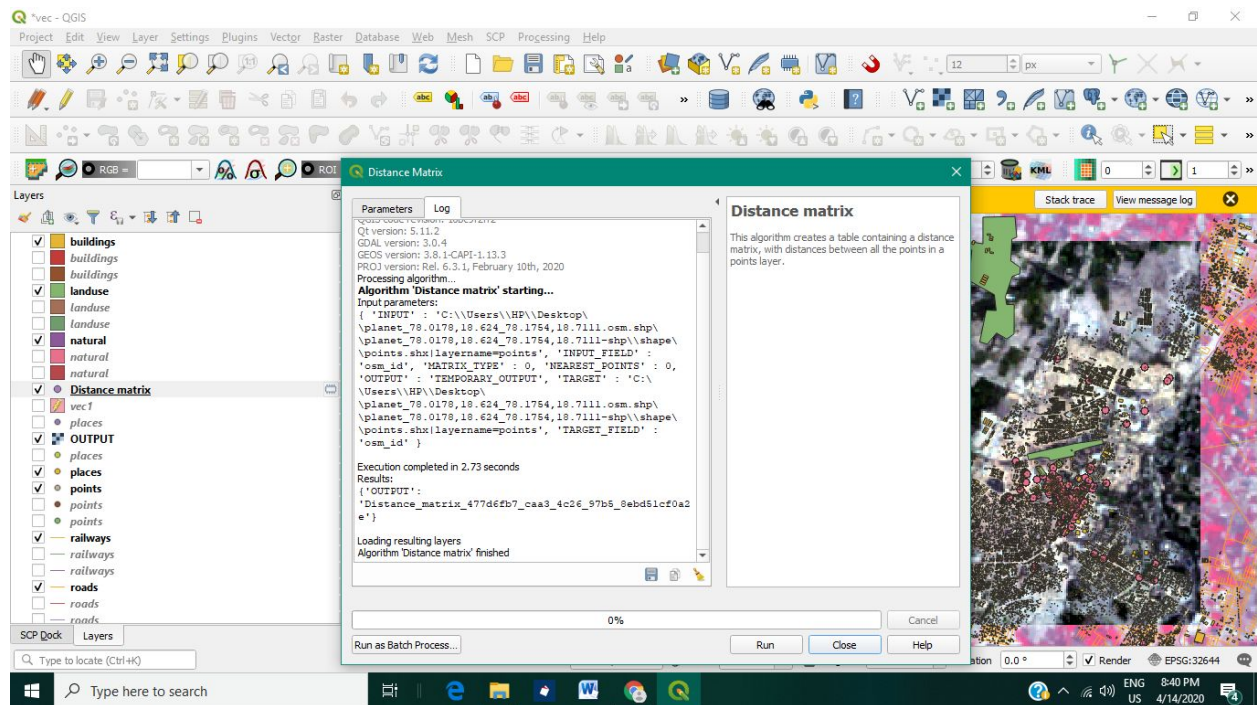


Creating a Mask:

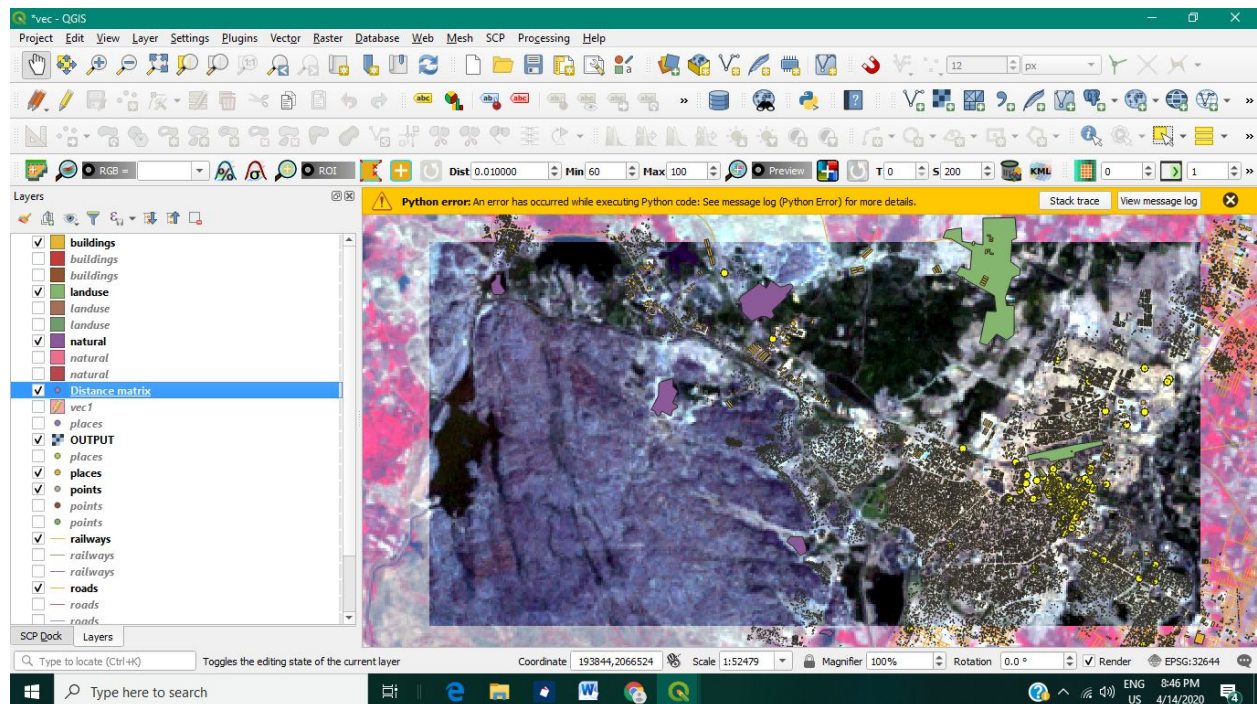


Calculating Distance Matrix (for points):

*Note: The shapefile data for Hospitals and Clinics was unavailable in the provided website.



Yellow points - Distance Matrix:



Attributes Table:

The screenshot displays the QGIS interface with the 'Distance matrix' dialog box open. The dialog shows a table with 16 rows of data. The first row is highlighted. The table columns are InputID, TargetID, Distance, and fid.

	InputID	TargetID	Distance	fid
1	732161989	1274161822	484.9022399166...	1
2	732161989	1882903835	4795.115118109...	2
3	732161989	-1769662418	4874.827649634...	3
4	732161989	-1769662406	803.5851691911...	4
5	732161989	-1769662351	5875.374090168...	5
6	732161989	-1586609936	1045.894805275...	6
7	732161989	-1586606787	853.6368806198...	7
8	732161989	-1586606785	1132.376072430...	8
9	732161989	-1584200801	848.5950406314...	9
10	732161989	-1584104492	995.8794074569...	10
11	732161989	-1584080419	1004.776162524...	11
12	732161989	-1584078528	968.4030488439...	12
13	732161989	-1584076280	995.0564740543...	13
14	732161989	-1584075778	886.4204154749...	14
15	732161989	-1584074776	794.5631941963...	15
16	732161989	-1584072796	886.7509155978...	16

Distance Matrix - Pink points:

The screenshot displays the QGIS interface with a map showing pink points. A yellow error message banner is visible at the top of the map area, indicating a Python error occurred while executing Python code. The error message is: "Python error: An error has occurred while executing Python code: See message log (Python Error) for more details." The map shows a satellite view of a city area with various features like buildings, roads, and green spaces. The pink points are scattered across the map, primarily in the urban areas.