

IITB-ISRO-AICTE MAPATHON

Team Name : Bhu-Alekhan **Team ID :** MAPATHON4337

Topic: Flood Maps

Team Details:

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Mention the ISRO data used

1. <https://iitb-isro-aicte-mapathon.fossee.in/> >>> <https://bhuvan.nrsc.gov.in/> >>>
https://bhuvan.nrsc.gov.in/bhuvan_links.php >>> Governance/Central Ministries g-Governance
Dashboard >>> Flood_Vunerability_Index >>> Spatial Rainfall >>> Probable Maximum
Precipitation (mm)(in 100 years)

Specific steps in GIS

1. We have downloaded QGIS Software through following links
<https://iitb-isro-aicte-mapathon.fossee.in/> >>> Resources>>>> QGIS >>>>
<https://qgis.org/en/site/forusers/download.html>

2. We have referred Spoken Tutorials from following links
<https://iitb-isro-aicte-mapathon.fossee.in/> >>> Resources>>>> Spoken Tutorials - FOSSEE – QGIS
>>>>>>https://spoken-tutorial.org/tutorial-search/?search_foss=QGIS&search_language=English

3. We also referred webinar videos from link as below _BHUVAN:
<https://youtu.be/GjaueiR1EU4>

4. QGIS >>> Plugin>>>> Manage and Install Plugins>>>>Search>>>> Quick Map
Services>>>>Download >>>> Install

5. QGIS >>> Web >>> Quick Map Services>>>> OSM >>>> OSM Standard

6. We followed all other steps as per given in tutorials

7. Then We used format template to prepare final map

Complexities

1. All the reference Tutorials are related to QGIS Software version 2.18 but the latest Downloadable version given in BHUVAN is QGIS Version 3.16. Some features in latest version (QGIS V3.16) is not available as in older version (QGIS V2.18)

2. We are not able to import map from Bhuvan to QGIS V3.16

3. https://bhuvan.nrsc.gov.in/geonetwork_data/index.php >>> Message Displayed : Bhuvan Data Discovery is under maintenance

4. Special Applications >>> International Disasters >>> Disasters maps/ locations are not updated as per latest data

Applications and Use of Maps

1. To forecast floods to avoid calamities and property loss
2. To identify Flood prone areas.
3. Useful in Land use planning
4. Useful to Mark Flood Zone and Flood Line for Town