Chennai Flood Map – 2015

**Data Used:**  
  
ISRO-BHUVAN Data: LISS III Data

Chennai boundary from isro-bhuvan data

Sentinel 1A SAR – VV Polarized data

**Methodology:**

* Downloaded the LISS III data from bhuvan portal , Merged the all bands (layerstacked) and Mosaicked those 4 tiles data. Clipped the LISS III data For Chennai area using Chennai boundary vector file.
* Sentinel 1A SAR – VV polarized data of 2015 november month downloaded using Google earth engine.
* Extracted the water pixels from the Sentinel 1A SAR data and overlayed of LISS III data for better visualization.
* After that done layout in Qgis itself.

**Complexity:**Getting cloud free multispectral data is difficult. Processing of SAR data requires more experience and time. To work in Google Earth Engine requires java script programming it’s little difficult task for GIS&Remote Sensing Persons.

**Applications:**using this map we can easily identify a flooded area and make recovery plan effectively. It’s a cost less and time less method to detect a flooded area.