

# FLOOD WATERS OVER CHENNAI AREA, TAMIL NADU STATE, INDIA

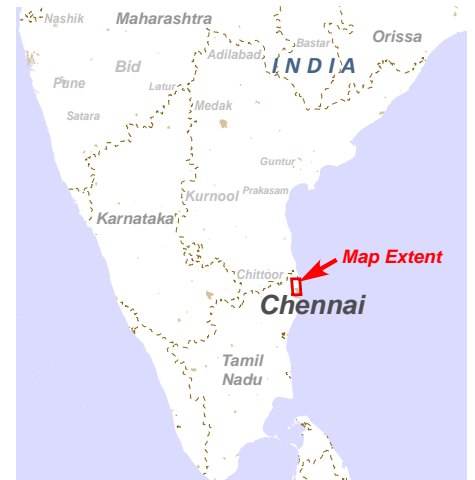
Analysis with Sentinel-1 Satellite Data Acquired 12 November 2015 and 01 September 2015 and Landsat-8 Acquired 14 October 2015

Floding

Production Date: 26/11/2015

Version 1.0

Glide Number: FL20151123IND



This map illustrates satellite-detected waters and probable flood waters in the Chennai area of the Tamil Nadu State in India. Using satellite imagery acquired 12 November 2015, 01 September 2015, and 14 October 2015, UNITAR-UNOSAT identified expansion of wetlands and standing waters in the area of Chennai and also some saturated soils areas which are mainly agricultural fields. Saturation in the area increased between 14 October 2015 and 12 November 2015, and the total water expansion is estimated to be about 28%. This analysis has not yet been validated in the field. Please send ground feedback to UNITAR-UNOSAT.

### LEGEND

- Populated Place
- City / Town
- Highway/Primary Rd.
- State Boundary
- District Boundary
- Probable Standing Flood Waters: [Sentinel-1 - 12 November 2015]
- Possible Saturated Wet Soils: [Landsat8 - 14 Oct. 2015 & Sentinel1 - 01 Sep. 2015]
- Pre-Crisis Water Extent: [Landsat-8 - 14 Oct. 2015 & Sentinel-1 - 01 Sep. 2015]

Map Scale for A3: 1:125,000  
0 1 2 3 4 Km

Satellite Data (1): Sentinel-1  
Imagery Date (1): 12 November 2015  
Satellite Data (2): Sentinel-1  
Imagery Date (2): 01 September 2015  
Resolution: 10 m  
Copyright: Copernicus 2015 / ESA  
Source: ESA  
Satellite Data (3): Landsat-8  
Imagery Date: 14 October 2015  
Resolution: 28.5 m  
Copyright: USGS  
Source: USGS  
Road Data : Google Map Maker / OpenStreetMap / ESRI  
Other Data: USGS, UNCS, NASA, NGA  
Analysis : UNITAR - UNOSAT  
Production: UNITAR - UNOSAT  
Analysis conducted with ArcGIS v10.3

Coordinate System: WGS 1984 UTM Zone 44N  
Projection: Transverse Mercator  
Datum: WGS 1984  
Units: Meter

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian and development agencies and their implementing partners.

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