

# Mapping Floods in Kancheepuram (Tamil Nadu) using Sentinel-1 Satellite Images








At least 165 people have lost their lives as heavy rains resulted in floods in Tamil Nadu. Chennai has been badly affected by floods as around 59 people have been killed in the capital so far. As per media reports, the incessant rains are caused due to a depression in the Bay of Bengal coast near Tamil Nadu. The heaviest rainfall in over a century caused massive flooding across Tamil Nadu, driving thousands from their homes, shutting auto factories and paralysing the airport in capital Chennai.

To determine the extent of severity in the flood affected districts in Tamil Nadu, Sentinel-1 satellite images referring to 24th November 2015 were obtained from European Space Agency to map the inundated areas. Dark areas in black referring to standing water. In total an estimated 567 sq.km were inundated of which the severely affected districts includes Cuddalore (360 sq.km), Nagapattinam (113 sq.km), Ariyalur (70 sq.km) and Perambalur (24 sq.km). Agriculture damage assessment at district level are Cuddalore (307 sq.km), Nagapattinam (82 sq.km), Ariyalur (50 sq.km) and Perambalur (16 sq.km).

## Legend

Flood Date : 24 Novembe 2015  
Satellite Image : SENTINEL-1

-  24 Nov. 2015 (Post Disaster)
-  River/Permanent water
-  Urban / Land Use
-  District boundary
-  Railways

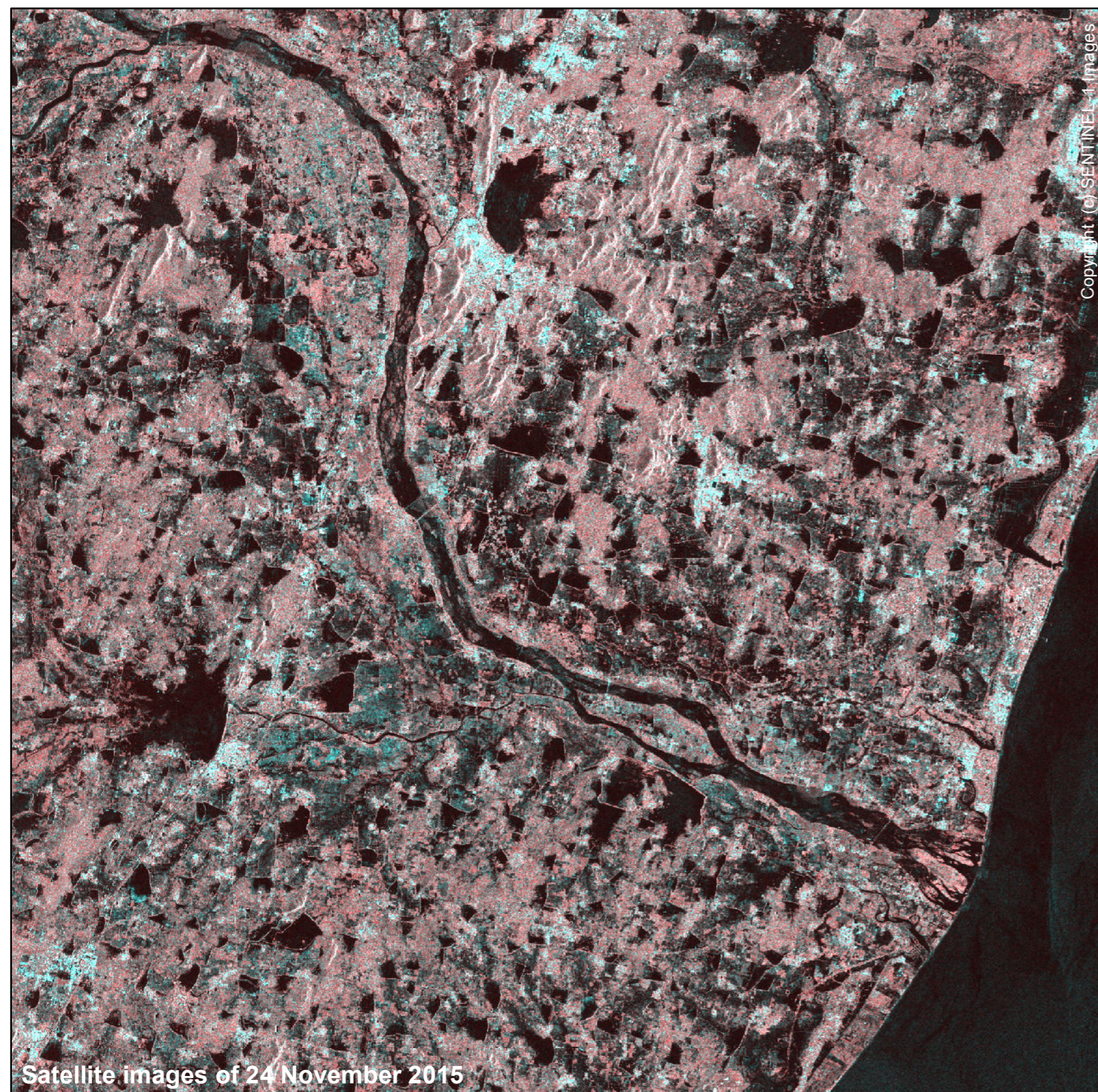
Map Prepared by:



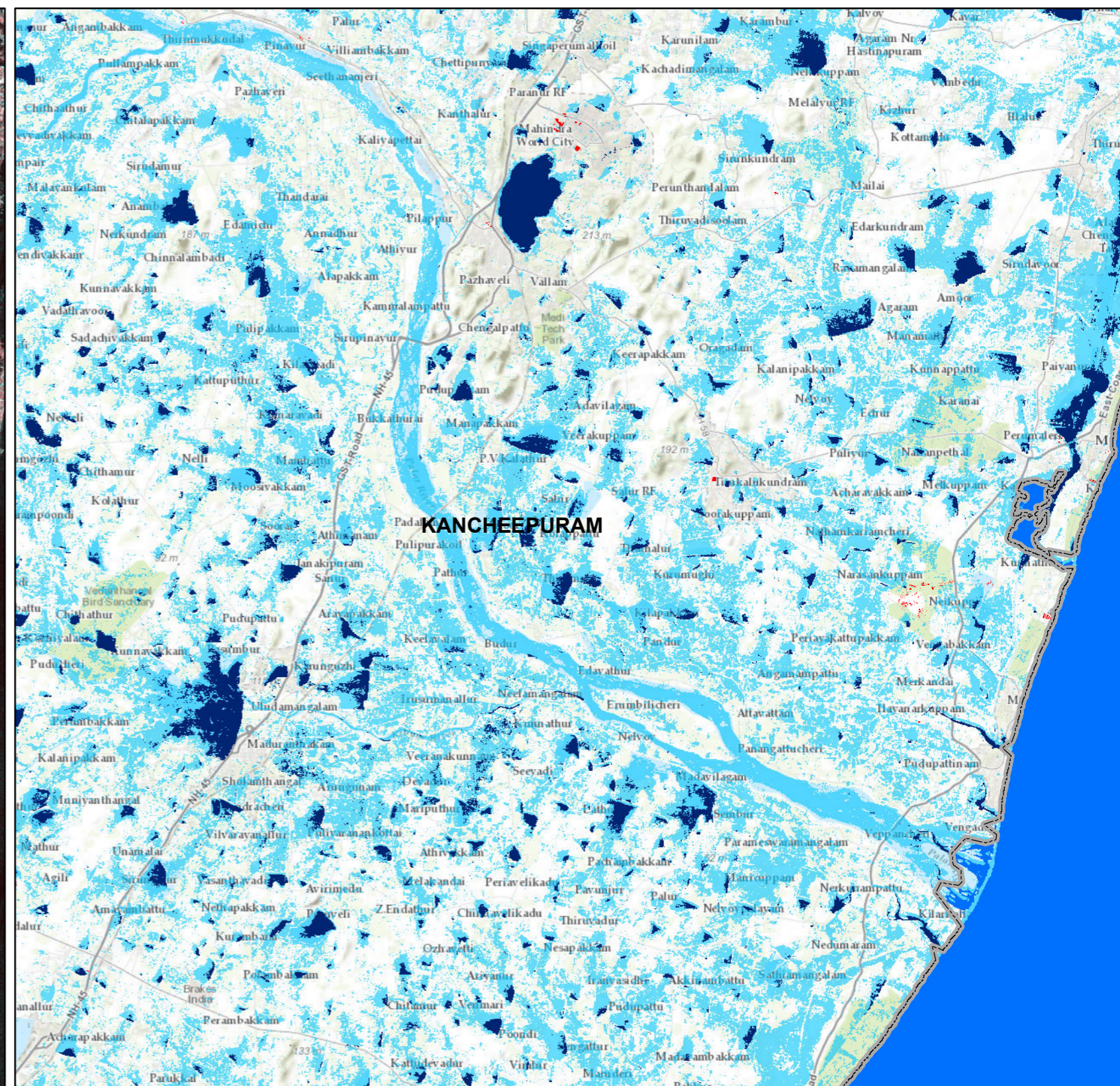
Data Provided by:



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Satellite images of 24 November 2015