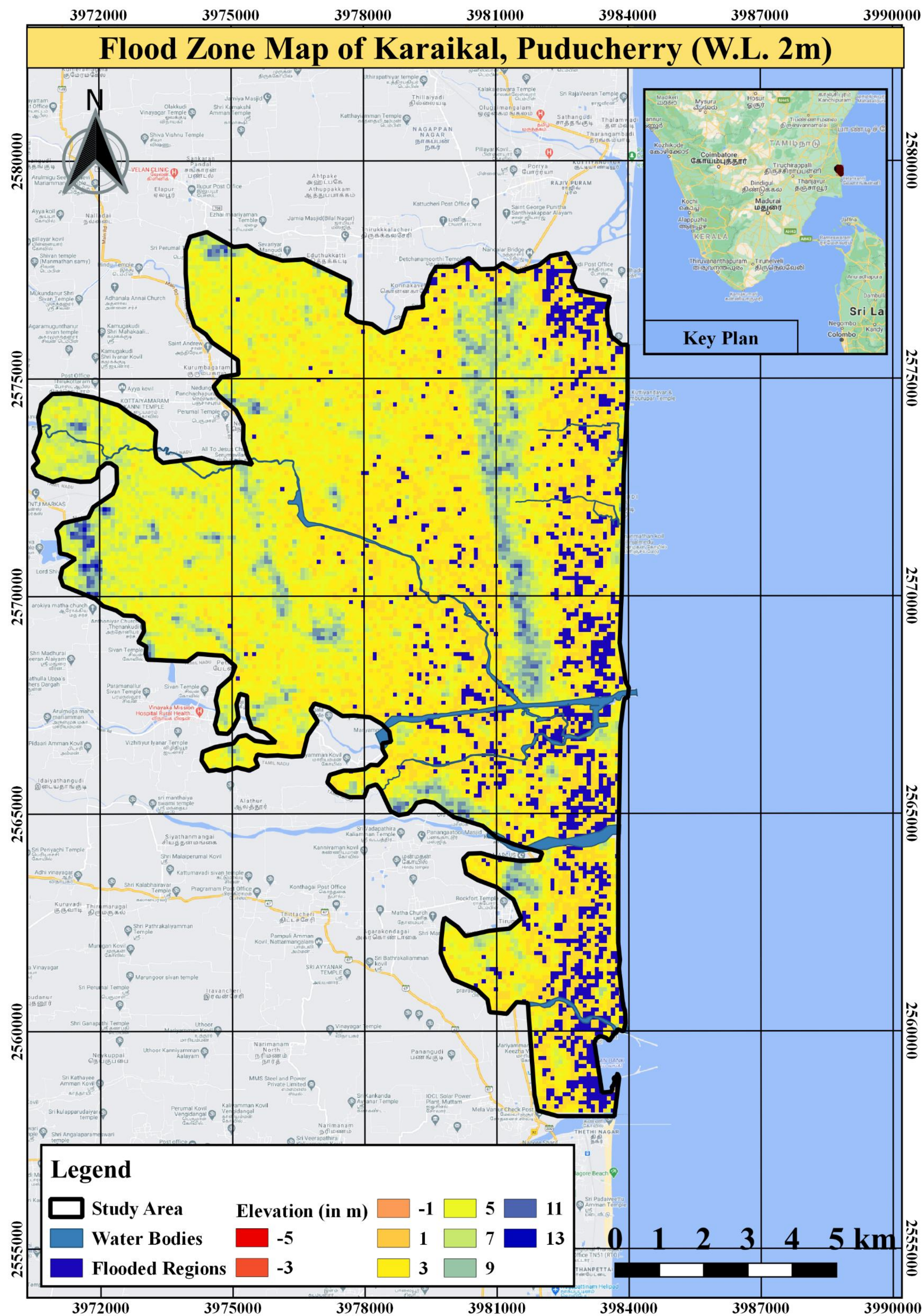


Title: Flood Risk Zone Map of Karaikal, Puducherry

Map description and analysis



Introduction

The coastal district of Karaikal is a part of the Puducherry union territory. This regions has an land span of about 161 sq. kms and is frequently affected by disasters like cyclones, flood and storm surge. During the 2004 Sumatra Earthquake Tsunami, this region was severely affected. So, disaster based mapping is essential to prevent the loss of life and properties. In this map an attempt is made to locate the zones where flood risk is high.

Digital Elevation Map

- The study area is located near the coast so the elevation difference is very less (-5m to 13m).
- In the map red and blue color represents the lower and higher elevation regions, respectively.
- The patch of higher elevation located near to the coast region represents the settlement.
- The regions is predominantly covered by agricultural lands.

Flood Risk Map

- The dark blue pixels in the map represent the regions wherein the flood risk is high.
- Regions near the coast are more vulnerable to the flood.
- Specifically, the regions near to Arasalar River and Karaikal deep-sea port are the most affected.
- These regions can also be affected by storm surge.

Possible Solution

- Construction and proper maintenance of drainage system is essential.
- Land use pattern in the high risk zone has to be monitored regularly.



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