

GPS Traces User Diaries Communities Copyright Help About



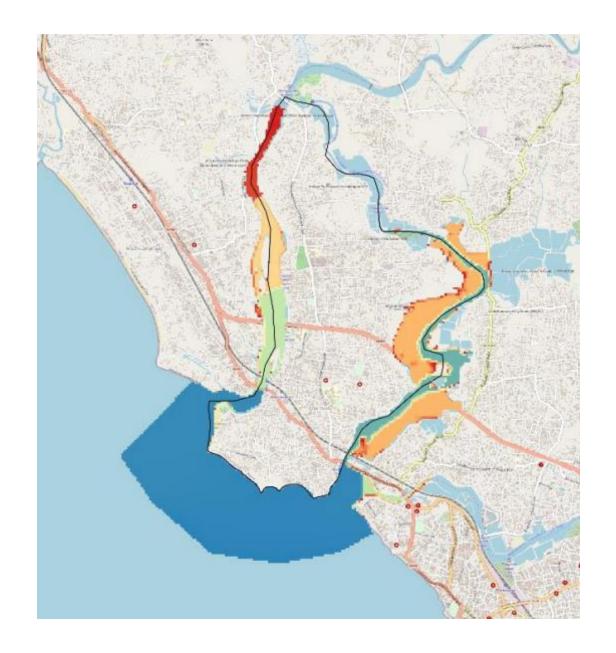
Edit

History

OSMKerala Community Meetup 2023

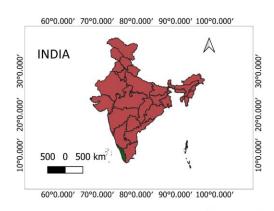
Background

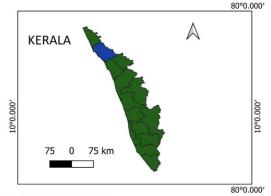
- Harnessing coastal flood risk with mangroves:
 A Hydrodynamic Modelling Case Study of Dharmadom Local Government, India using HEC-RAS 6.3.1, and QGIS 3.28.8.
- Proposal: Flood assets
- Pudussery Grama Panchayat Mapping



About the project

LOCATION MAP







Dharmadom Local Government, Kannur, Kerala

Suggested features to be mapped during the project

- Water bodies: These features can play a role in flood management by storing excess water during heavy rainfall
- Wetlands: Wetlands can act as natural flood barriers by absorbing and storing large amounts of water
- Mangroves: Mangroves can help reduce the impact of coastal flooding by dissipating wave energy and reducing erosion.
- Flood protection infrastructures: These features can help prevent flooding by blocking or redirecting floodwaters.
- Drainage infrastructure: These features can help reduce the risk of flooding by directing excess water away from populated areas.

- Propose a new tag **flood_assets** in OpenStreetMap to represent assets that provide flood defense or coastal protection functions.
- Maps the flood assets (man-made and natural) in Dharmadom Local Government, Kerala State, India.
- Creates a comprehensive database of flood defense assets.
- Makes it easier to use this information for disaster resilience and adaptation planning.
- Aims to improve local disaster resilience and adaptation planning by providing a spatial flood defense layer for Dharmadom Local Government using this new tag.
- Use of flood asset data in hydrodynamic models

status selected

OSMKeralaBoosterGrant

Creation of spatial flood asset database for Dharmadam local government, Kerala State

The aim is to relate any asset (man-made and natural) that provides flood defence or coastal protection functions in Dharmadom Local Government in the OpenStreetMap. The project aims to propose a new tag for flood_asset in the OpenStreetMap.

start-date

2023-07-12

goal

goal-default

end-date

2023-11-25

budget (INR)

69000

grant_type

INDIVIDUAL

location(s)

Kannur District

contact(s)

· rmikhil.nird@gmail.com

link

https://www.linkedin.com/in/nikhilm/@

Target Project Outcomes

- Relate any asset (man-made and natural) that provides flood defense or coastal protection functions in Dharmadom Local Government in the OpenStreetMap
- Propose a new tag for flood_asset in the OpenStreetMap
- Create a spatial flood defense layer for Dharmadom Local Government using this new tag
- Improve local disaster resilience and adaptation planning by providing a comprehensive database of flood defense assets

Target Project Output

- Flood_asset tag
- Open Spatial Flood Asset Map

Stage 1: Planning and Preparation

- Develop a data collection plan, including identification of data sources and methods for data collection.
- Initial Field Visits

Stage 2: Data Collection

- Conduct a half-day mapathon event with volunteers to map features using satellite imagery in the tasking manager.
- Conduct field surveys to collect data on flood assets in Dharmadom local government.
- Organise and clean collected data.

Stage 3: Data Analysis and Mapping

- Develop a spatial database of flood assets in Dharmadom local government
- Create maps and visualizations to display flood asset data
- Submit proposal for new OSM tag for flood assets to the OSM community for review and approval

PROJECT TEAM

- Members
- Nikhil R R
- Charesh C K
- Sachin Chandran
- Supporting Organisation
- Sahya Foundation
- Facilitating Organisation
- Geominds









Field Visit 24 September 2023

Send your feedback!

