

Yemen - Marib - Saylat Al-Rumayla

Flood Hazard 2024

330

9

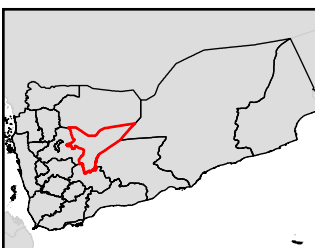
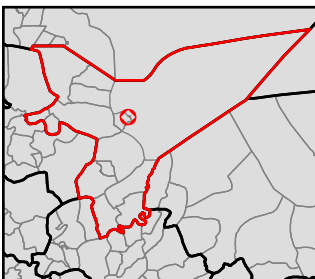
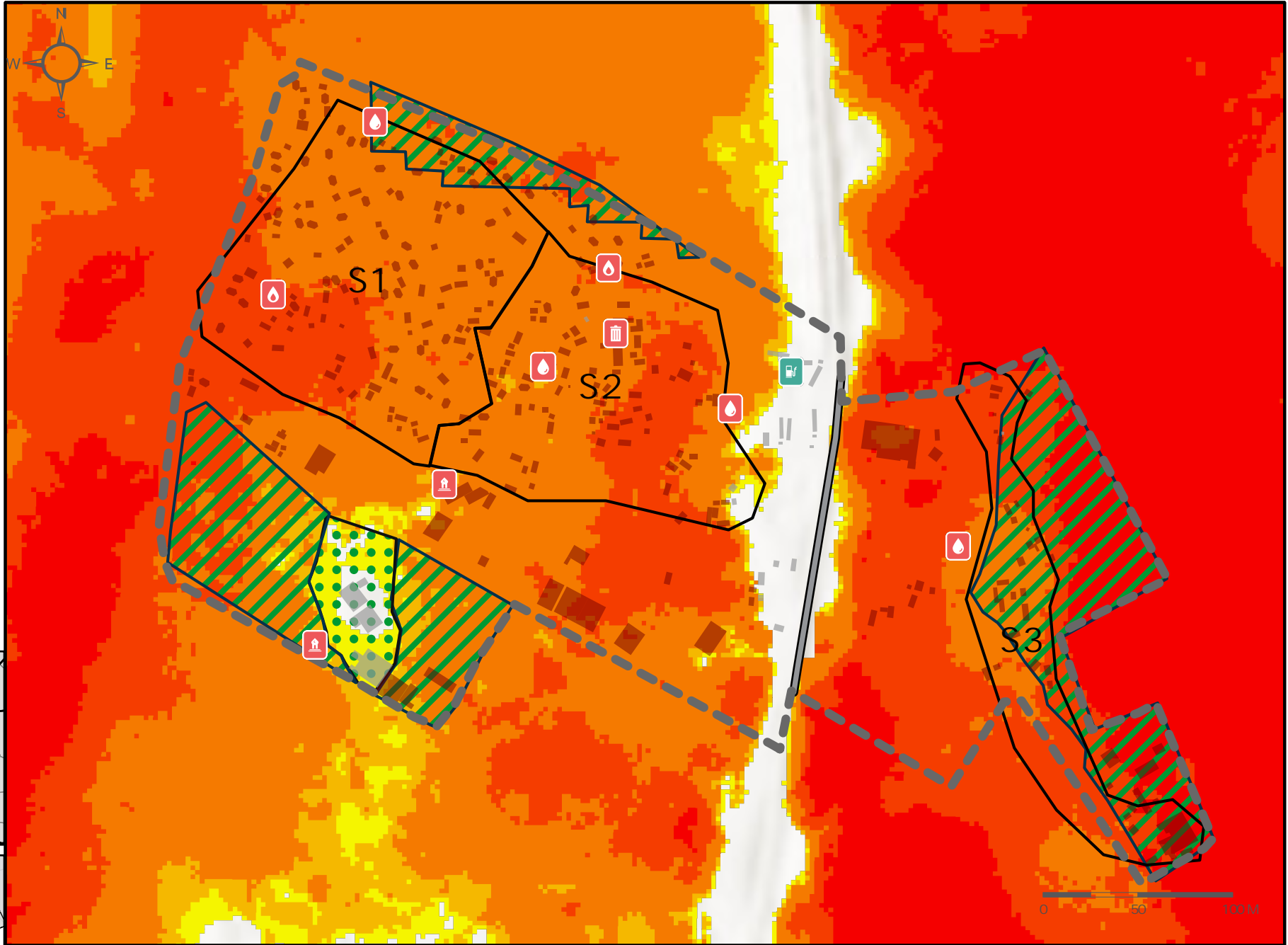
Buildings at High Risk

Public Buildings at High Risk

Production Date : 30 May 2024

- Boundaries
- AL-Rumayla Sectors
- AL-Rumayla Agricultural**
 - Agricultural land High Risk
 - Agricultural land Low Risk
- Shelters Flood Hazard Score**
 - High Risk 330 Sites
 - Low Risk
- Road Low Risk**
 - Road Low Risk
- Landmarks**
 - (WCP) Waste Point High Risk
 - Fire Point High Risk
 - Gas Company Low Risk
 - Mosque High Risk
 - Mosque High Risk
 - Water Point High Risk
 - Water Point High Risk

- Modelled Flood Hazard (m)**
- <= 0.2
- 0.21-0.50
- 0.5-1.5
- 1.51-2.5
- >2.5



A two-dimensional (2D) unsteady flow hydraulic model was set up using HEC-RAS software for the two catchments in the Saylat Al-Rumayla region. The approach allows an understanding of flood hazards on a catchment-wide scale and identify areas prone to flood risk, especially areas exposed to flash flooding. The terrain used for the HEC-RAS 2D unsteady flow analysis of the Saylat Al-Rumayla catchment was a satellite derived DEM product of 25 meters resolution. Flood hazard was obtained by multiplying depth and velocity. The flood water depth represents water flow extents and static accumulation of water in meters. It was classified into 5 flood hazard categories from very low to extreme according to the Japanese criteria of the Ministry of Land Infrastructure, where each hazard category is associated with the risk of damage, the threat to human safety, and the possibility of evacuation. Following a collaborative approach, Following a collaborative approach, REACH and CCCM Partner drew site boundaries of Saylat Al-Rumayla IDP site.

Roads: OpenStreetMap
 Shelters and Agricultural land: Manually digitized by REACH Yemen
 Background: ESRI

ESRI Coordinate System: WGS 1984 UTM Zone 38N
 File: REACH_YEM_Map_FloodHazard_AI-Rumileh_30May2024_A1

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