

Yemen - Marib - Al-Sowayda

Flood Depth 2024












50

0



Buildings at High Risk

Public Buildings at High Risk






Production Date : 30 May 2024

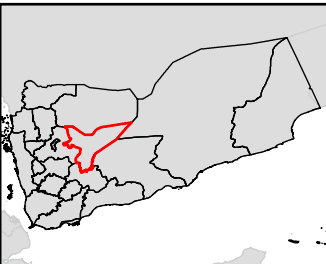
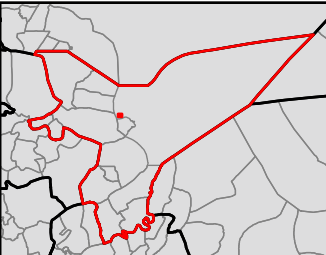
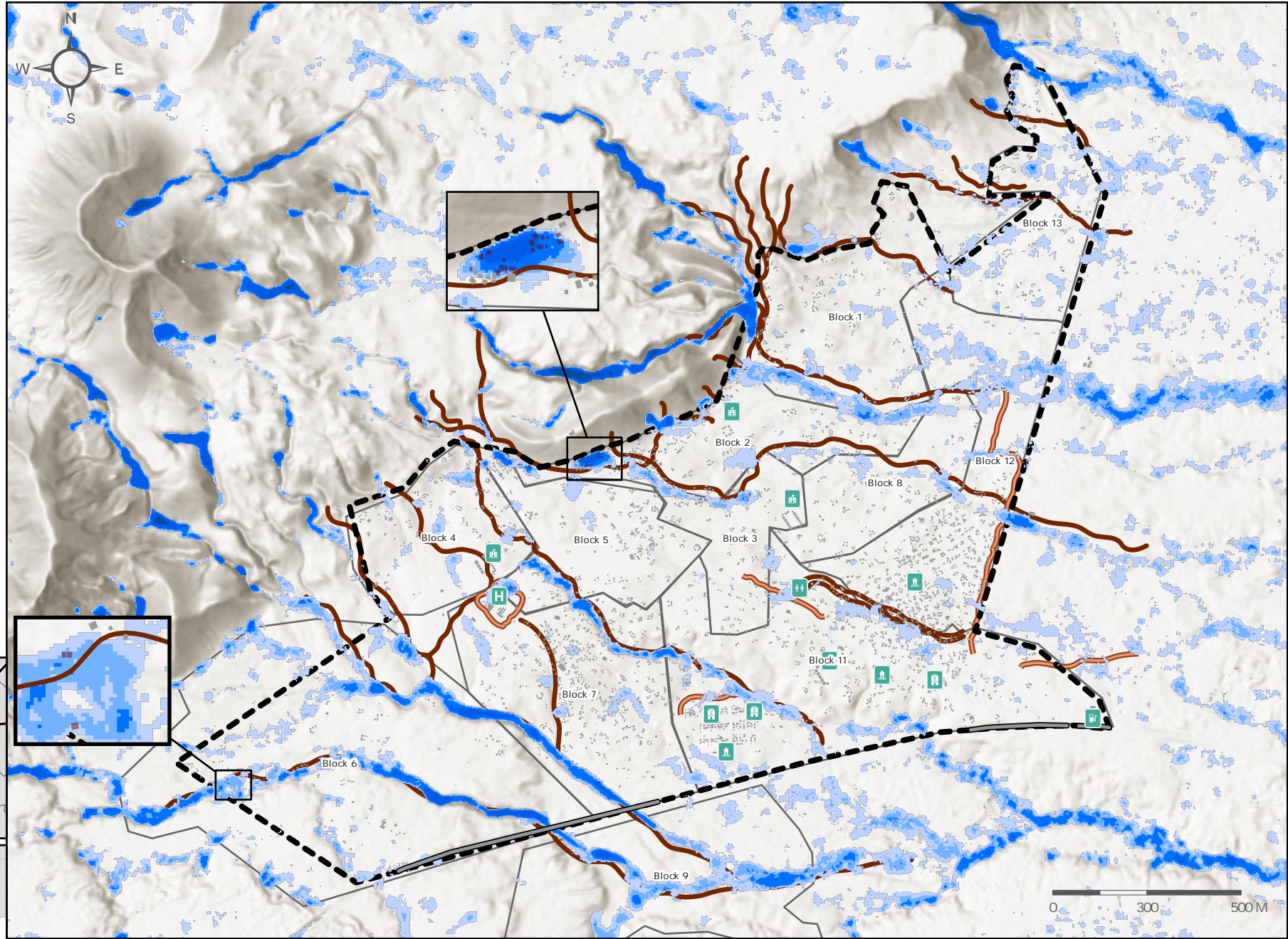
-  Boundaries
-  AL-Sowayda Sectors
- Shelters Flood Depth Score**
-  High Risk 50 Sites
-  Low Risk
-  Road Low Risk
- Landmarks**
-  Children's Playground Low Risk
-  Grocery Store Low Risk
-  Hospital Low Risk
-  Mosque Low Risk
-  Petro Products Low Risk
-  School Low Risk

POI Location Lines

-  Earthen Barrier
-  Flood Stream Path

Modelled Depth Hazard (m)

-  <= 0.5
-  0.51 - 1
-  1.01 - 2
-  2.01 - 5
-  > 5



A two-dimensional (2D) unsteady flow hydraulic model was set up using HEC-RAS software for the two catchments in the Al-Sowayda 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 Al-Sowayda lacatchment was a satellite derived DEM product of 2.5 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 Al-Sowayda IDP site.

Roads: OpenStreetMap
 Shelters and Agricultural land: Manually digitized by REACH Yemen
 ESRI Coordinate System: WGS 1984 UTM Zone 38N
 File: REACH_YEM_Map_FloodDepth_AISowayda_30May2024_A4

In partnership with



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