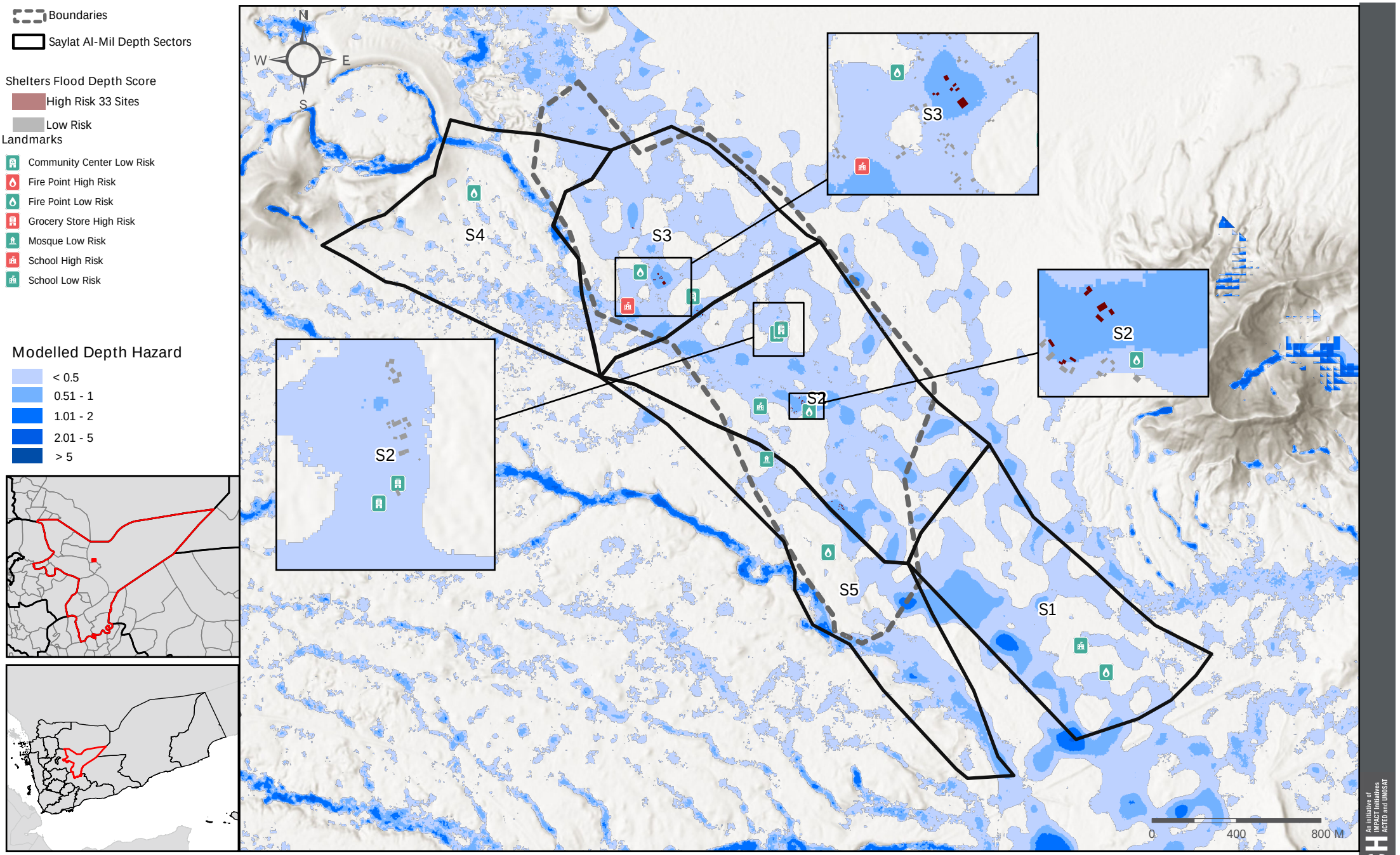
Yemen - Marib - Saylat Al-Mil Depth

Flood Depth 2024

33
Buildings at High Risk

1
Public Buildings at High Risk

Production Date : 30 May 2024



A two-dimensional (2D) unsteady flow hydraulic model was set up using HEC-RAS software for the two catchments in the Saylat Al-Mil 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-Mil 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 ewith 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-Mil 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_FloodDepth_Saylat Al-Mil_30May2024_A4

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