













# Yemen - Marib - Masna'a Adhban

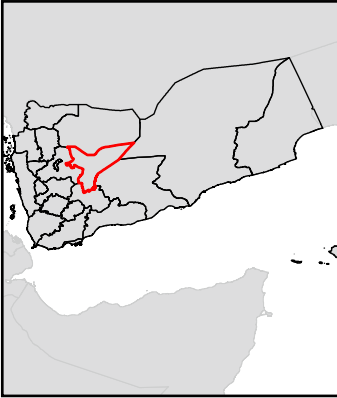
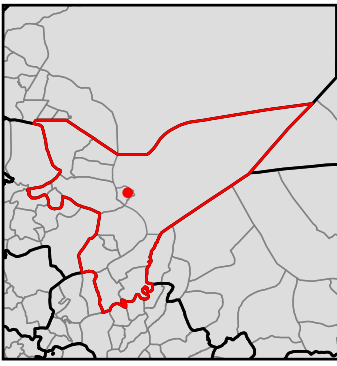
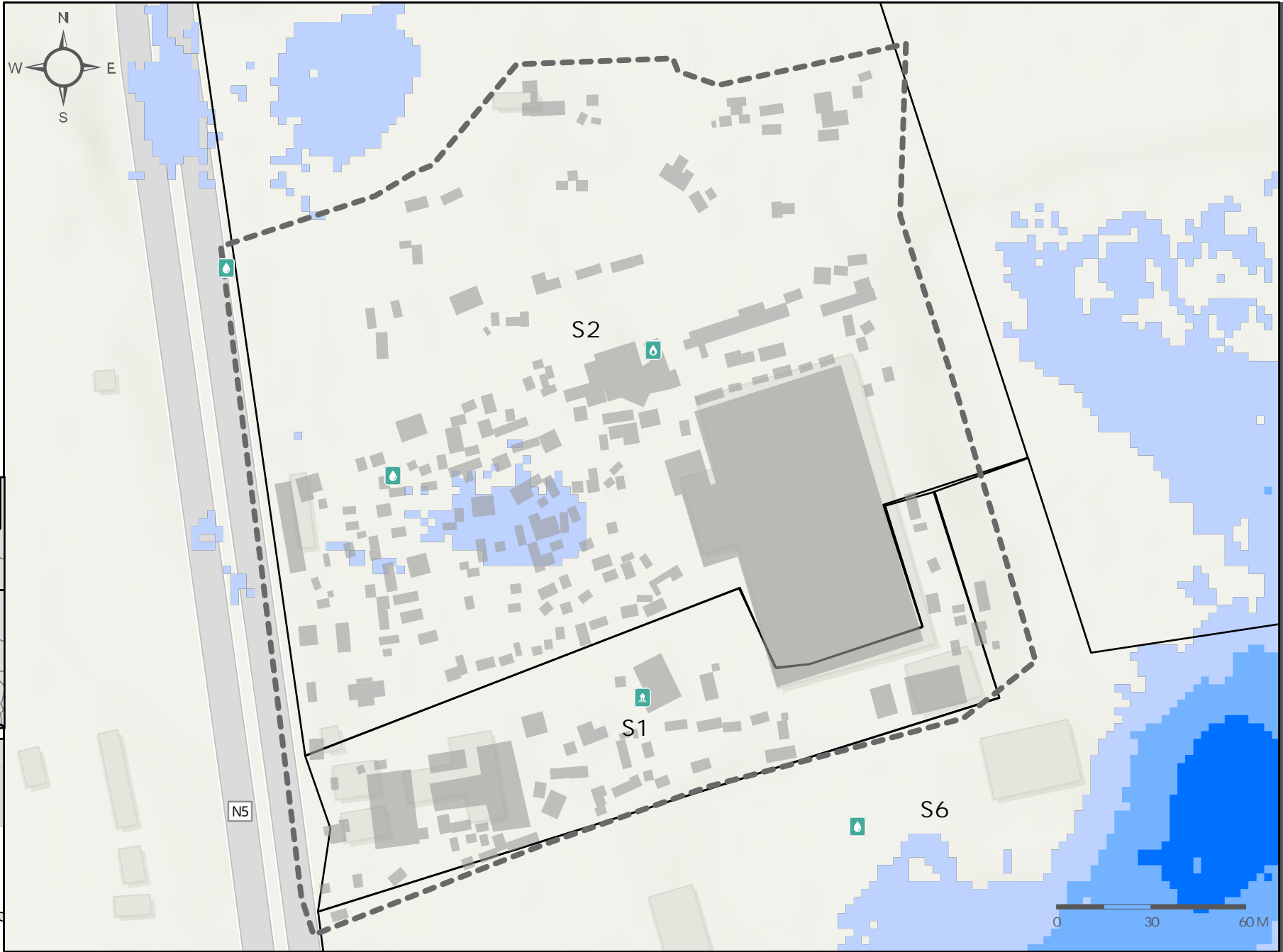
## Flood Depth 2024

0 Buildings at High Risk      0 Public Buildings at High Risk

Production Date : 30 May 2024

-  Boundaries
-  Masna'a Adhban Sectors
  
- Shelters Flood Depth Score**
-  High Risk
-  Low Risk
  
- Landmarks**
-  Mosque Low Risk
-  Water Source, Low Risk
-  Fire Point, Low Risk

- 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 Masna'a Adhban 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 Masna'a Adhban 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 Masna'a Adhban 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\_MasnaaAdhban\_30May2024\_A4

In partnership with  
  
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