>0.2 - 0.5 (Medium)

>1.5 - 2.5 (Very High)

>0.5 - 1.5 (High)

>2.5 (Extreme)

[\_\_] Basins

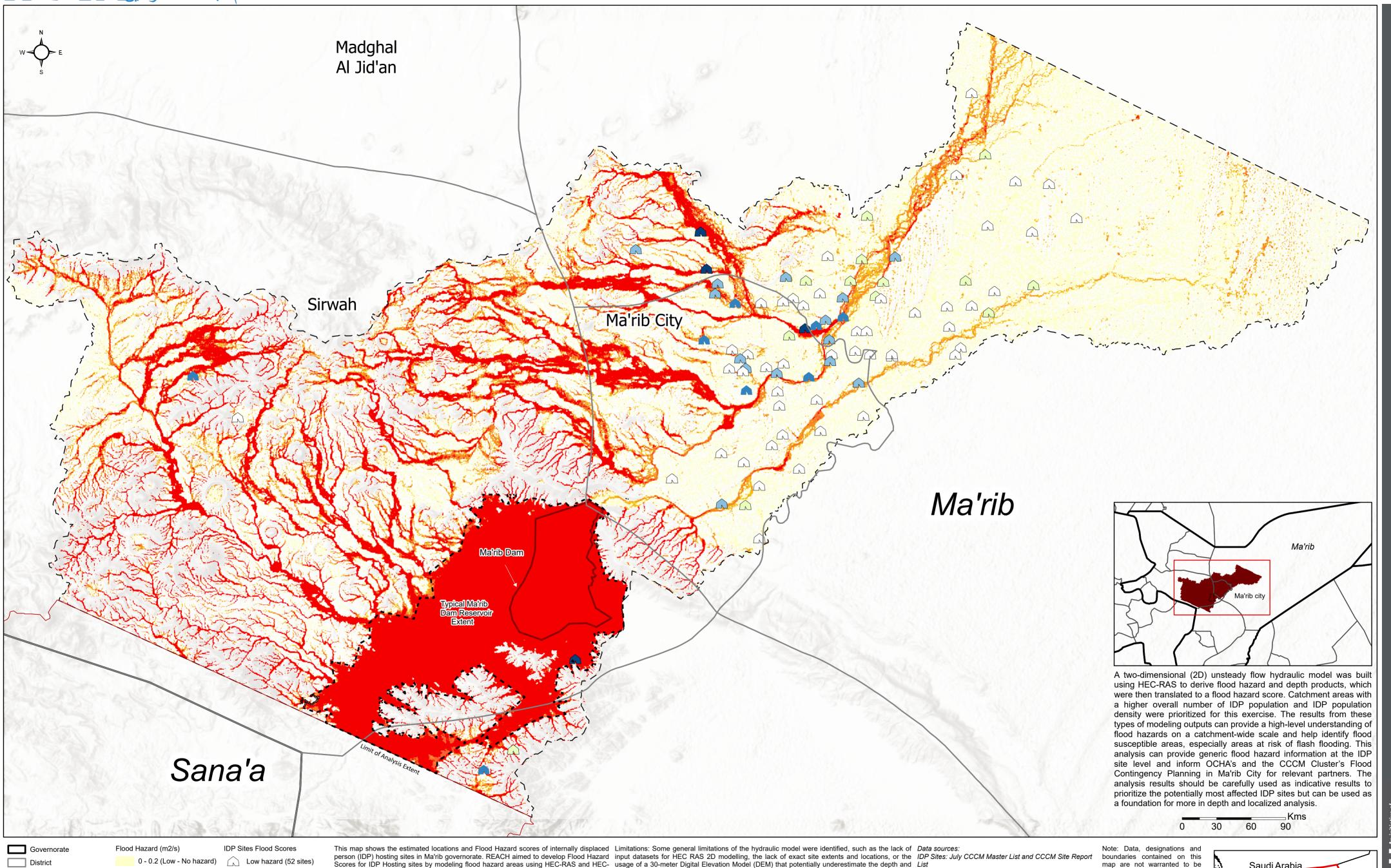
Medium hazard (9 sites)

Extreme hazard (7 sites)

High hazard (14 sites)

## Yemen - Rapid Flood Hazard Assessment - Flood Hazard Scores Ma'rib City IDP Sites - September 2022

For humanitarian purposes only Production date: 27 September 2022



HMS software. This map specifically shows the HEC¬RAS flood depth product. A hazard extent. In addition, the hydraulic model results were not validated on the Flood Data: UNOSAT HEC-RAS and HEC-HMS Models

hydrologic flow from the downstream portion of the basin before the dam, while HEC-RAS difficult to determine without knowing key details about the dam. Two HEC-RAS scenarios were File: REACH\_YEM\_Map\_Ma'rib\_CCCM\_Flood\_Depth\_

upstream (displayed on the map). Both simulations consider 25-year return period event in the simulation. The scenario used for this map does not include Ma'rib dam overtopping, Contact: reach.mapping@impact-initiatives.org extreme precipitation events.

score is attributed to an IDP site based on how much estimated site extents overlap with ground to confirm whether the extent of modelled events match actual flood events. IDP hosting Admin Boundaries: OCHA

model builds on this information to determine the extent where flooding is likely to occur produced, differing on how much water was present in the dam before the extreme precipitation IDPSites 27Sep2022 AZ V1

water from precipitation events that occur upstream. The water flows north into the Ma'rib Depth score may change over time. Site without GPS coordinates were excluded from this

Very High hazard (6 sites) dam, and depending on the severity, through Ma'rib city. HEC-HMS was used to model the analysis.Ma'rib dam and its influence on modelling the flow of water across the landscape was Coordinate System: GCS WGS 1984

modelled flood hazard areas. Ma'rib is part of a large basin that captures vast amounts of sites presented in this map are from July, and the number and location of sites per Flood Hazard Background: ESRI, NGA, USGS, CGIAR

Saudi Arabia Oman

Vemen

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