

0 - 0.5 (Low - N

>5 (Extreme)

___ Basins

>0.5 - 1 (Medium) >1 - 2 (High) >2 - 5 (Very High)

Medium hazard (46 sites) High hazard (8 sites) Very High hazard (6 sites) Extreme hazard (1 sites)

simulations consider 25-year return period extreme precipitation events.

map are not warranted to be RAS and HEC-HMS software. This map specifically shows the HEC¬RAS flood depth depth and overestimate hazard extent. In addition, the hydraulic model results were not Flood Data: UNOSAT HEC-RAS and HEC-HMS Models error-free and do not imply product. A hazard score is attributed to an IDP site based on how much estimated site validated on the ground to confirm whether the extent of modelled events match actual flood Admin Boundaries: OCHA acceptance by the REACH extents overlap with modelled flood hazard areas. Ma'rib is part of a large basin that events. IDP hosting sites presented in this map are from July, and the number and location of Background: ESRI, NGA, USGS, CGIAR partners, associated, donors captures vast amounts of water from precipitation events that occur upstream. The sites per Flood Hazard/Depth score may change over time. Site without GPS coordinates mentioned on this map. water flows north into the Ma'rib dam, and depending on the severity, through Ma'rib were excluded from this analysis. Ma'rib dam and its influence on modelling the flow of water Coordinate System: GCS WGS 1984 city. HEC-HMS was used to model the hydrologic flow from the downstream portion of across the landscape was difficult to determine without knowing key details about the dam. File: REACH_YEM_Map_Ma'rib_CCCM_Flood_Depth_ the basin before the dam, while HEC-RAS model builds on this information to determine Two HEC-RAS scenarios were produced, differing on how much water was present in the dam IDPSites_27Sep2022_AZ_V1 the extent where flooding is likely to occur upstream (displayed on the map). Both before the extreme precipitation event in the simulation. The scenario used for this map does Contact: reach.mapping@impact-initiatives.org not include Ma'rib dam overtopping, which according to consulting experts is very unlikely.

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