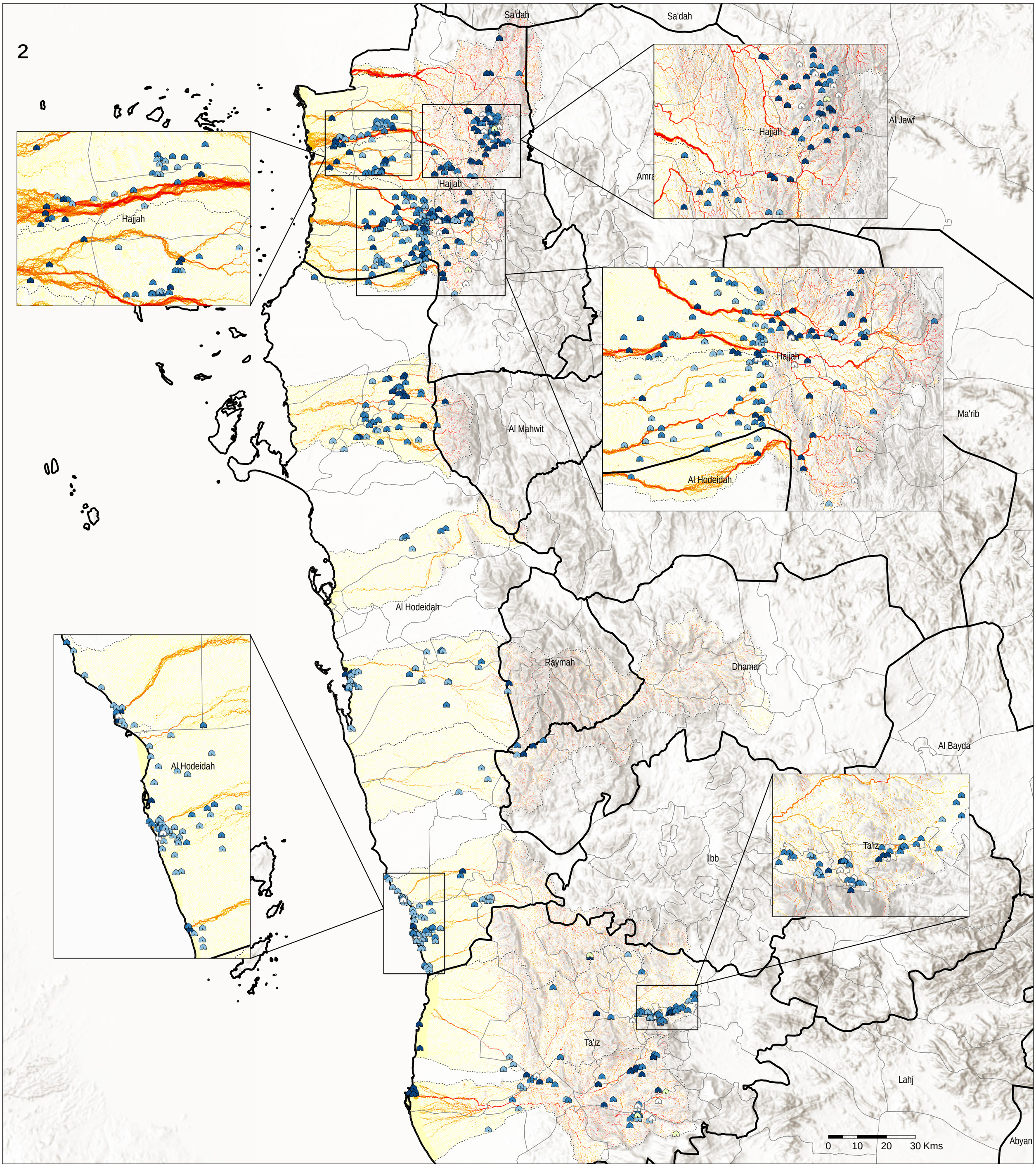
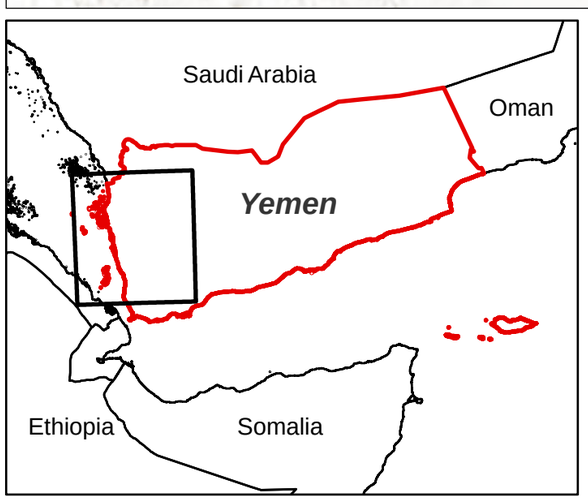
YEMEN
CCCM CLUSTER
دعم مجتمعات النازحين

Yemen - Flood Hazard & IDP Sites Location (2D HEC-RAS Modelling) West of Yemen - March 2022

Version 1
Production date : 14 March 2022





This map shows the estimated locations and Flood Risk Scores of 589 internally displaced person (IDP) hosting sites in some parts of the west of Yemen (incl. Hajjah, Al Hodeidah, Taiz governorates). REACH aimed to develop Flood Risk Scores for IDP Hosting sites by modeling the risk of flooding in 12 separate basins. A two-dimensional (2D) unsteady flow hydraulic model was built using HEC-RAS to derive flood hazard and depth products, which were then translated to a flood risk score. This map specifically shows the HEC-RAS flood hazard product. The results from these types of modeling outputs can provide a high-level understanding of flood hazards on a catchment-wide scale and help identify flood susceptible areas, especially areas at risk of flash flooding. Catchment areas with a higher overall number of IDP population and IDP population density were prioritized for this exercise.

- Governorate
- District
- Basins

Flood Hazard (m2/s)
- >0 - 0.2 (Low - No Risk)
- >0.2 - 0.5 (Medium)
- >0.5 - 1.5 (High)
- >1.5 - 2.5 (Very High)
- >2.5 (Extreme)

IDP Site (HEC RAS Flood Score)
- High Risk (142 Sites)
- Medium Risk (237 Sites)
- Low Risk (168 Sites)
- No Risk (7 Sites)
- No Score - Negligible Flood Coverage (35 Sites)

Data sources:
IDP Sites: CCCM Master List and CCCM Site Report List
Flood Data: REACH HEC-RAS Models
Admin Boundaries: OCHA

Coordinate System: GCS WGS 1984
File: REACH_YEM_Map_Flood_Hazard_IDPSites_14Mar2022_A2_V1
Contact: reach.mapping@impact-initiatives.org

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associated, donors mentioned on this map.