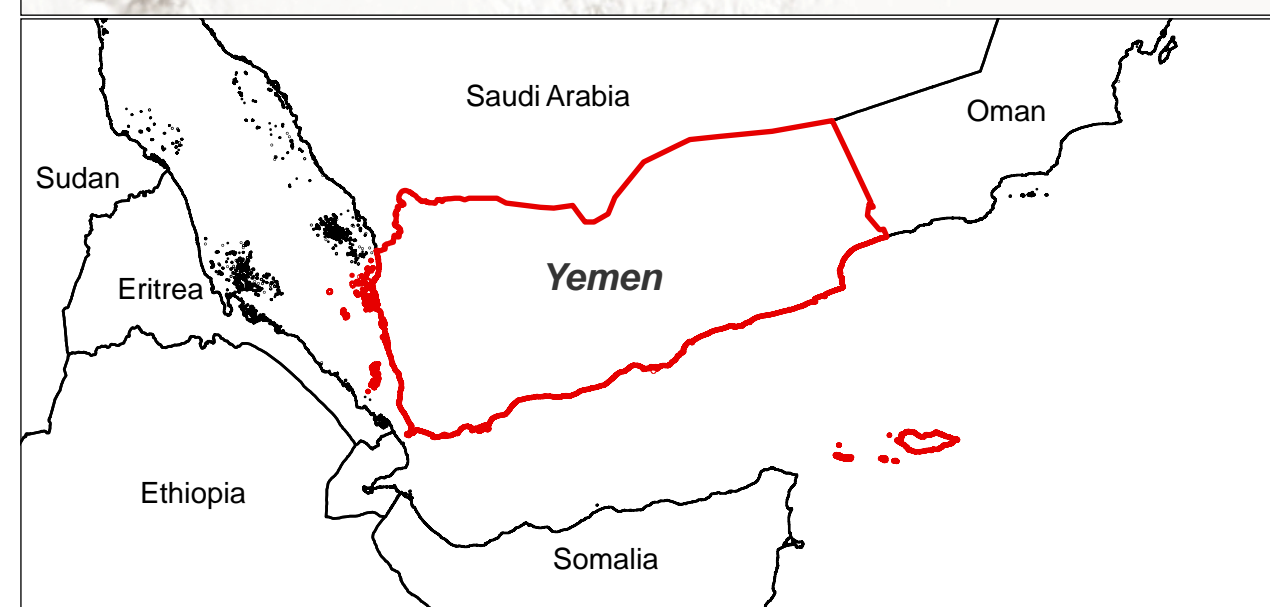
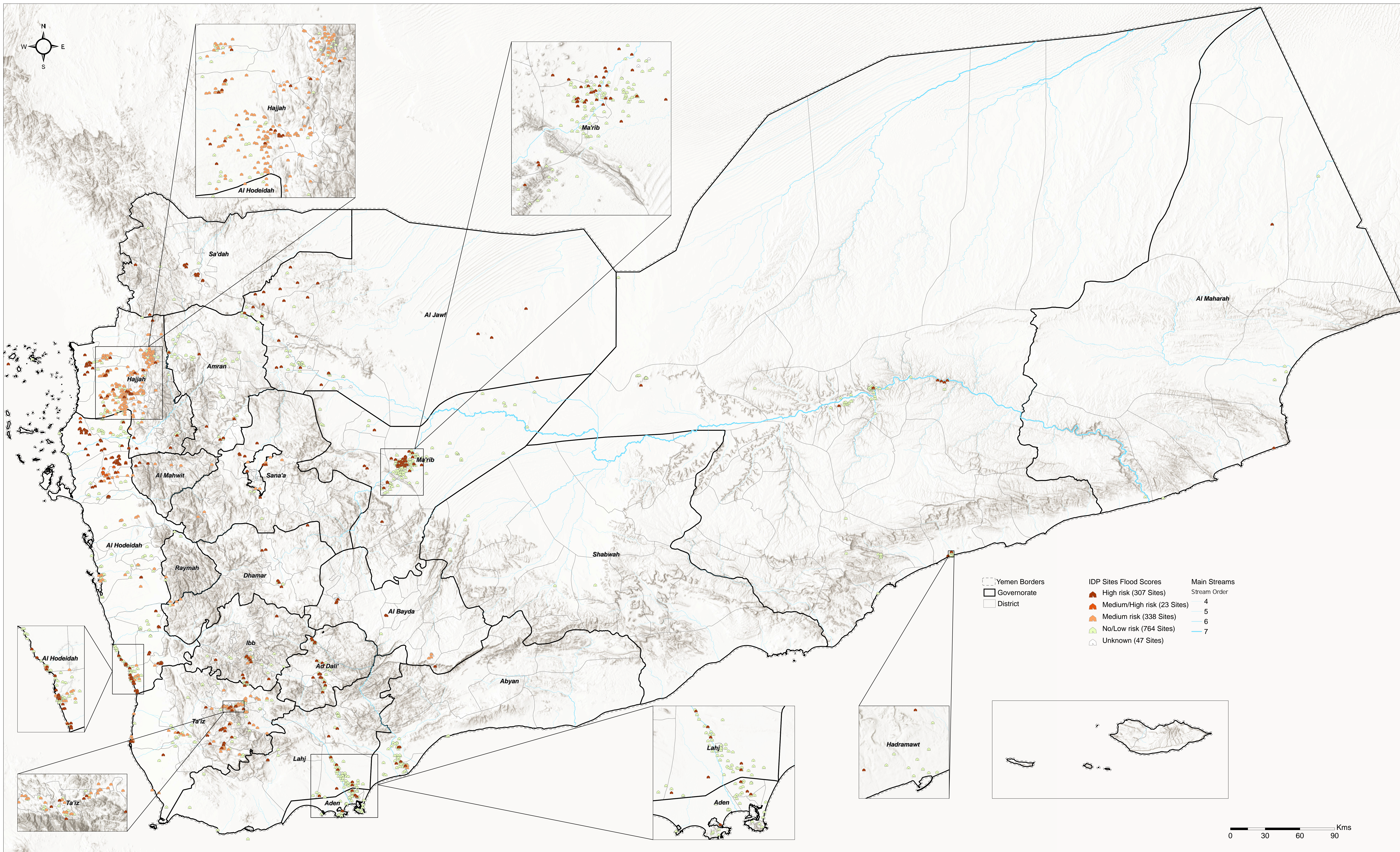


Yemen - IDP Sites location and Flood Risk Scores

2022 CCCM Flood Risk Analysis of IDP sites - March 2022

Version 1
Production date : 24 March 2022



This map shows the estimated locations and Flood Risk Scores of 1,479 internally displaced person (IDP) hosting sites in Yemen. REACH aimed to develop Flood Risk Scores for IDP Hosting sites by modeling the risk of flooding using HEC-RAS software and then triangulate the results with other available data sources (i.e., CCCM Site Report, CCCM Flood Report, CCCM 2022 SNCCs Flood Estimates) to estimate which IDP hosting sites are at risk of flooding. While the HEC-RAS model determines the extent to which an IDP site is at risk of flooding based on a designed storm, the CCCM Flood Report highlights sites where flooding actually occurred in 2021/2022. The CCCM Site Report reports whether a site is at risk of flooding, based on Key Informants perception. Overall, the CCCM Flood Report is considered the most authoritative dataset in this analysis, since it reports actual events. The CCCM Flood Report also allows REACH to validate its HEC-RAS model findings over time.

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. 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.

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.

Data sources:
IDP Sites: CCCM Master List and CCCM Site Report List
Flood Data: REACH HEC-RAS Models, CCCM Site Report, CCCM Flood Report, CCCM 2022 SNCCs Flood Estimates.
Main Streams: REACH Watershed Analysis
Admin Boundaries: OCHA
Background: ESRI, NGA, USGS, CGIAR

Coordinate System: GCS WGS 1984
File: REACH_YEM_Map_National_CCCM_Flood_IDPSites_24Mar2022_A0_V1
Contact: reach.mapping@impact-initiatives.org