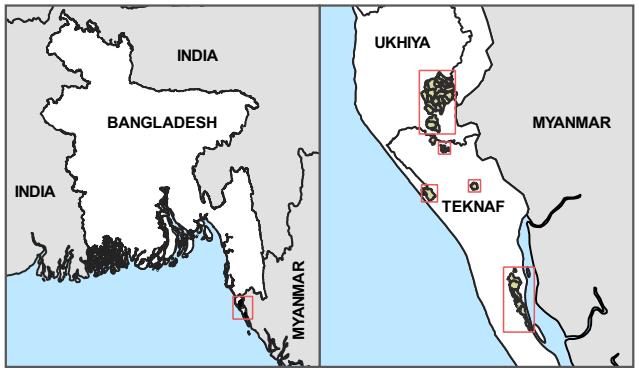
BANGLADESH - Rohingya Refugee Crisis - Cox's Bazar District

Modelled Flood Hazard - 1 in 10 Year Rainfall Event - Sub-Block Level Area of Flooded Structures

For Humanitarian Purposes Only
Production date: 30.11.2021

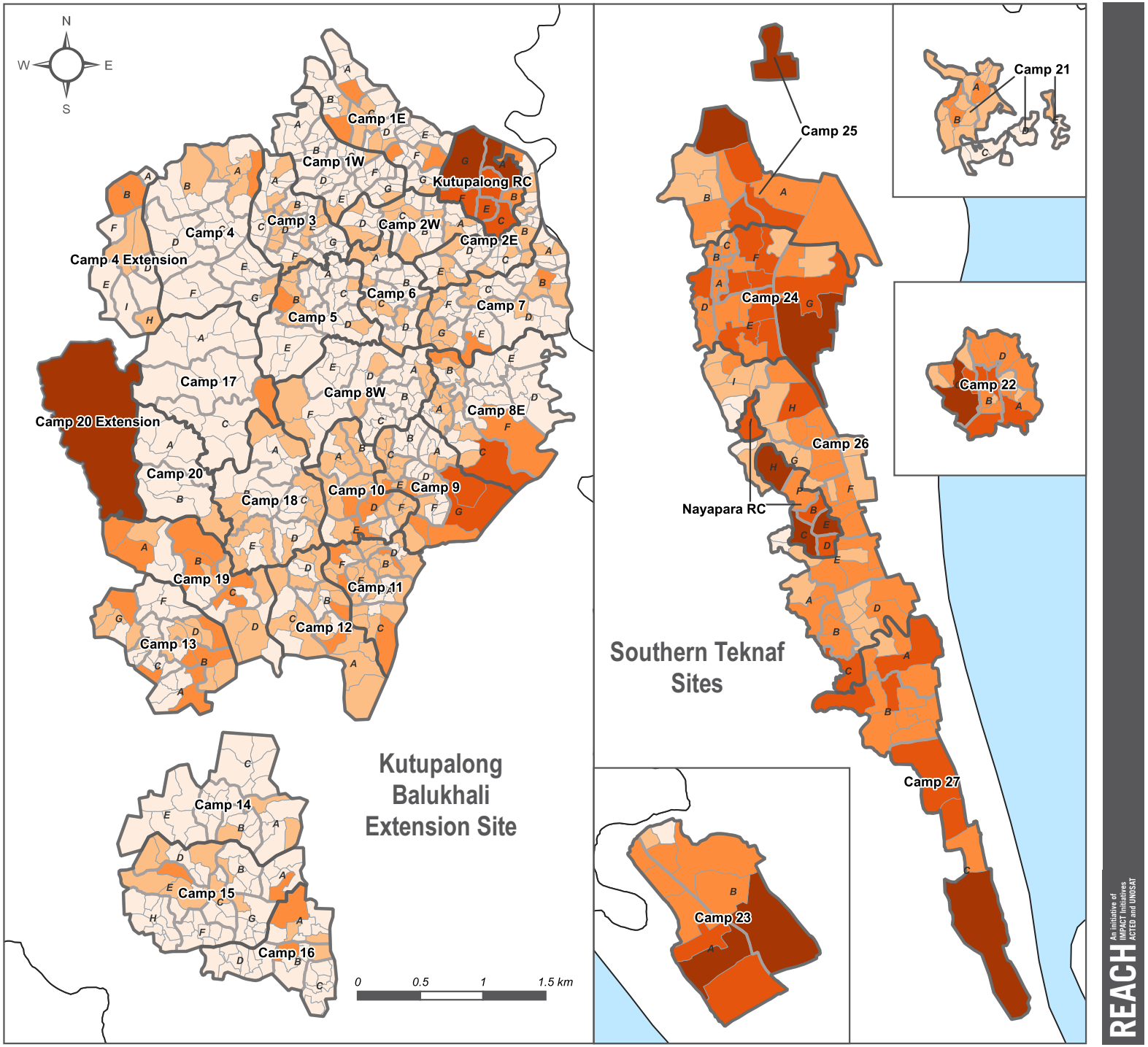


Area of Flooded Structures (m²)

- 0 - 2,000
- 2,001 - 4,000
- 4,001 - 8,000
- 8,001 - 16,000
- 16,001 - 25,000

Boundary

- Block Boundary
- Camp Boundary
- Upazilla Boundary



Description:
This map shows the estimated area of flooded structures following a 10-year average return interval (ARI) rainfall event. Links to maps showing the modelled flood depths and detailing the underlying methodology can be found in the Hydrodynamic Modelling data sources below. Structures were taken from the REACH/UNOSAT 2021 Structure Footprint and are considered to be flooded when exposed to a water depth of 0.05 metres or more. Note that the structures footprint includes facilities, households, WASH blocks etc. but is thought to be a useful proxy for estimating community exposure. Camp names and Block letters are labelled on the maps.
N.B: Camp 20 Extension: *Calculated at the camp level as there are no published block and sub-block boundaries.*
KRC and NRC: *Calculated at the block level as there are no published sub-block boundaries.*

Uses and Limitations:
The aim of this map is to help planners and decision makers identify priority areas for interventions at camp sub-block level. It is not designed as a standard tool for detailed site planning decisions. Map results need to be ground verified and decisions combined with specific on-site evaluation and appropriate technical expertise. The map does not provide any information about water flow.
Results are derived from remote sensing and computational modelling; they are not ground proofed and inherently limited by the quality of the input data/or model assumptions. The flood zones do not necessarily imply exposure and, similarly, the areas outside the flood extents are not necessarily free from any danger.

Data Sources:
Structure Footprint: REACH/UNOSAT, 2021
Camp Boundary: ISCG, 2020
Block and Subblock Boundary: ISCG, 2021
Coordinate System: WGS 1984 UTM Zone 46N
Hydrodynamic Modelling:

- *ARUP, 2019 (Teknaf)*
- *Deltares, 2019 (Kutupalong)*

Disclaimer:
Data, designations, and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by REACH. REACH Initiative in Bangladesh is an implementing partner for HELVETAS Swiss Intercooperation.

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