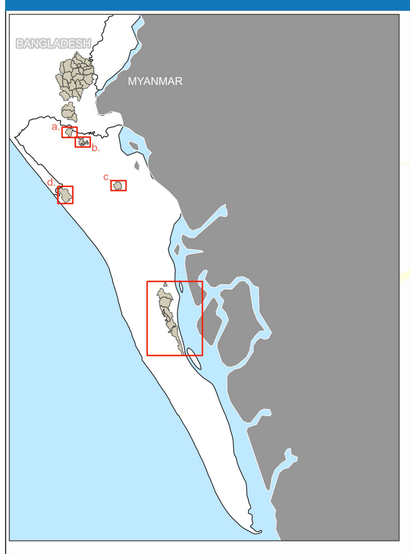
ISCG | Inter Sector Coordination Group

BANGLADESH - Rohingya Refugee Crisis - Cox's Bazar District
Landslide Hazard- Susceptibility Model

VERSION 1.0
For Humanitarian Purposes Only
Production Date: 2019-04-25



CAMP 25

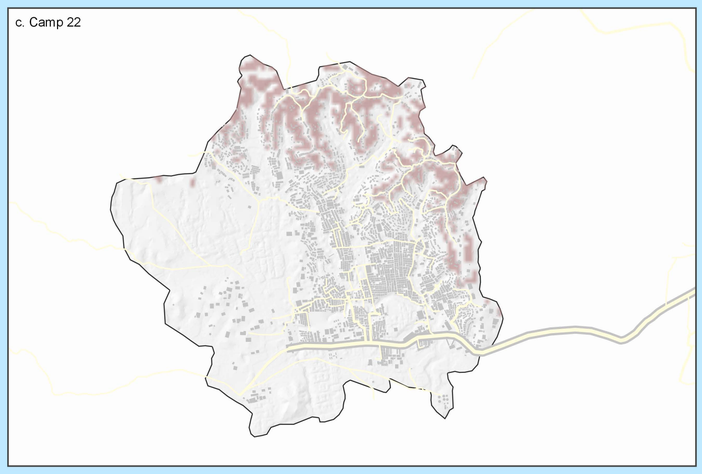
CAMP 24

CAMP 26

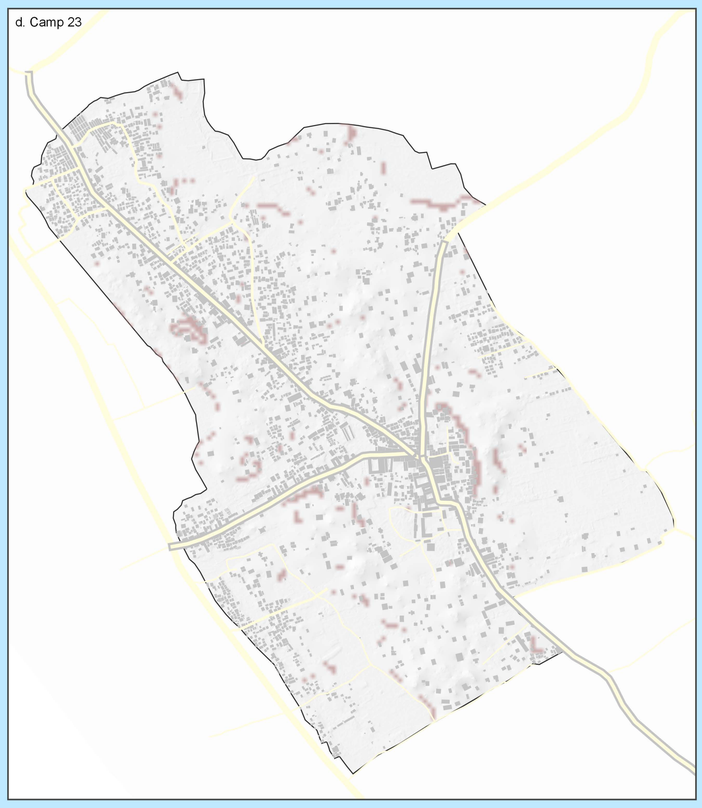
NAYAPARA RC

CAMP 27

c. Camp 22



d. Camp 23



a. Choukhali Camp

b. Camp 21

N
W E
S

0 0.5 1 km

Description:
This map indicates zones potentially affected by landslides. It is based on a model using machine-learning technology developed by NASA through the NASA/IRI-Columbia University led COMPAS project (Connecting Earth Observations to Decision Makers for Preparedness Actions). This model generates a landslide susceptibility map using a historical landslide inventory for calibration. The susceptibility expresses the likely absence or presence of landslides on a scale varying from zero to one. The zones delineated in this map correspond to values >0.55. This threshold is derived from statistical correlation with the mapped landslides. The model is still under development; the results should be considered as experimental data.

The map does not provide any information about the importance (size) of the landslides and does not reflect landslide propagation. Without ground-proofed analysis and observation, it is not possible to predict exact occurrence of landslides. The potentially exposed area is therefore much larger than the effectively affected area in case of landslide events. Because most mapped landslides are related to human interventions (cuts and fills, concentrated water runoff, land degradation, etc.), the susceptibility map is influenced by such activities that are not only of natural origin.

Usage and limitations:
This map provides a general overview of the hazard distribution and supports camp scale site development and preparedness activities. It is NOT designed as a stand-alone tool for detailed site planning decisions. The latter need to be combined with specific on-site evaluation and appropriate technical expertise. This map is a simplified representation derived from more elaborated data (available on request). The potentially affected areas are based on remote sensing data and/or computational modelling. They are not ground-proofed and entail limitations. They do not necessarily imply exposure and, similarly, the remaining zones are not necessarily free from any danger. This map is an integral part of the Summary report (status 10.04.2019) produced by the Natural Hazards and Risk Analysis Taskforce. Refer to it for further details. Please submit any requests to the ISCG Information Management Unit. This map product is part of on-going analysis and is expected to be updated by mid-May 2019.

Data Sources:
Background - Hillshade derived from NPM -UAV Orthographic DEM, January 2019
Roads/Shelter footprint - ©OpenStreetMap contributors
Landslide Susceptibility- NASA, 2019
Camp Boundary - ISCG, 2019
Coordinate System: WGS 1984 UTM Zone 46N Projection: Transverse Mercator

Camp Boundary
Potentially Affected Area
Road/ Footpath
Shelter Footprint

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