Satellite Detected Water Extent in Chittagong District, Chittagong Division, Bangladesh

This map illustrates the satellite-detected water extent in the District of Chittagong, Chittagong Division, in the southeastern part of Bangladesh after the tropical cyclone Mora-17. The UNITAR-UNOSAT analysis used a Sentinel-1 satellite image acquired on the 30 May 2017 and detected several areas with standing waters. In the district of Chittagong ~4,790 ha are likely flooded and almost 12 km of the local roads seem to be affected. The population exposure analysis using WorldPop data shows that ~70,000 people are potentially affected by floods within map extent. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

Potentially affected roads 12 km
Tertiary road 12 km

Legend
- City/Town
- Populated Place
- Shelter site
- Hospital
- Family welfare centre
- Secondary road
- Tertiary road
- Potentially affected tertiary road
- Division boundary
- District boundary
- Upazila boundary
- Union boundary
- Reference water
- Satellite detected waters (30 May 2017)

Map Scale for A3: 1:100,000

Analysis conducted with ArcGIS v10.4.1
Coordinate System: WGS 1984 UTM Zone 46N
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter

Satellite Data - Sentinel-1
Image Date: 30/05/2017
Resolution: 10m
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Source: ESA

Road Data - OpenStreetMap, HDX, CC0

Other Data: IC, USGS, AEX, GeoEye, Other Data: IC, USGS, AEX, GeoEye
Analysis - UNITAR - UNOSAT
Production UNITAR - UNOSAT

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