












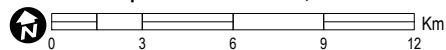
Satellite detected water over Shabelle & Afer zones

This map illustrates satellite-detected flood water extent in Somali Region, Ethiopia. The analysis was conducted by analysing a Sentinel-1 image acquired on the 7 May 2018. As observed from the satellite radar image, a total of 11,329 ha of land were inundated in the area of interest. By using WorldPop data, we estimate that at least 8,800 people are potentially affected or living close to the potentially flooded area. This corresponds to about 6% of the population living in the area of interest. It is likely that flood waters have been systematically underestimated along highly vegetated areas along main river banks and within built-up urban areas because of the special characteristics of the satellite data used. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR UNOSAT.

Legend

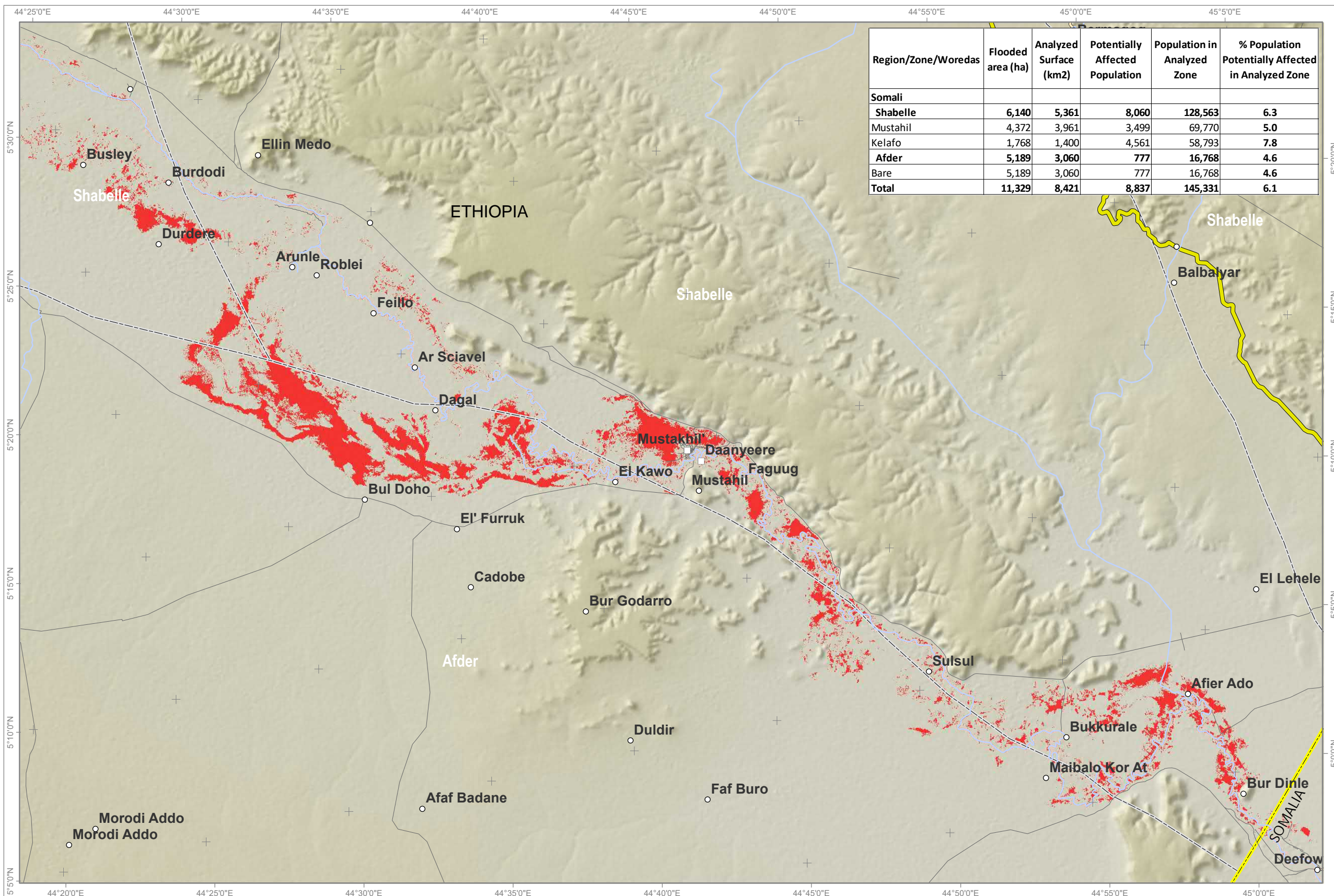
-  Settlement
-  Town
-  Waterway/River
-  Primary road
-  Secondary road
-  Local/Urban road
-  International boundary
-  Zone boundary
-  Satellite detected water (07 May 2018)

Map Scale for A3: 1:250,000



Analysis conducted with ArcGIS v10.4.1

Coordinate System: WGS 1984 UTM Zone 38N
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter



Region/Zone/Woredas	Flooded area (ha)	Analyzed Surface (km2)	Potentially Affected Population	Population in Analyzed Zone	% Population Potentially Affected in Analyzed Zone
Somali					
Shabelle	6,140	5,361	8,060	128,563	6.3
Mustahil	4,372	3,961	3,499	69,770	5.0
Kelafo	1,768	1,400	4,561	58,793	7.8
Afer	5,189	3,060	777	16,768	4.6
Bare	5,189	3,060	777	16,768	4.6
Total	11,329	8,421	8,837	145,331	6.1

Satellite Data: Sentinel-1
Imagery Dates: 07 May 2018
Resolution: 10 m
Copyright: Copernicus 2018/ESA
Source: ESA

Waterways: FAO
Administrative boundaries: HDX
Settlements: HDX
Road Data: OpenStreetMap
Population data: WorldPop

Analysis: UNITAR - UNOSAT
Production: UNITAR - UNOSAT

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