



UNOSAT

Tropical Cyclone IDAI 19

Population and Settlement Exposure Analysis

in Central of Mozambique

18 March 2019



Population and Building Exposure Analysis
18 March 2019

Geneva, Switzerland

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The population exposure has been calculated using a 100m resolution WorldPop dataset and Settlement from International Organization for Migration

This is a preliminary analysis & has not yet been validated in the field.

Mozambique Population and Settlement Exposed to Flood extracted from Sentinel-1 acquired on 14 March 2019

Province/District	Population		Settlement	
	Total	Affected*	Total	Affected*
Mozambique				
Inhambane				
Govuro	43,085	86	409	22
Manica				
Machaze	134,470	72	389	2
Sofala				
Buzi	196,690	27,341	205	98
Chibabava	132,666	6,546	380	80
Dondo	696,816	694	80	23
Machanga	64,467	10,464	198	77
Nhamatanda	278,891	15,182	79	45
Total	1,547,085	60,385	1,740	347

* Population and settlement affected within the analysis extent.

Download full excel table from [here](#).

Sources:

Flood area: Copernicus ESA Sentinel-1 acquired on 14 March 2019
 Administrative Levels: Global Administrative Areas (GADM)
 Spatial Demographic Data: WorldPop (2015), 100 m spatial resolution
 Settlement : International Organization for Migration (2015)
 Analysis: UNITAR-UNOSAT (18/03/2019)



MOZAMBIQUE

Sofala province

Imagery analysis: 13 and 14 March 2019 | Published 18 March 2019 | Version 1.0

Tropical Cyclone

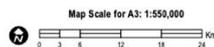
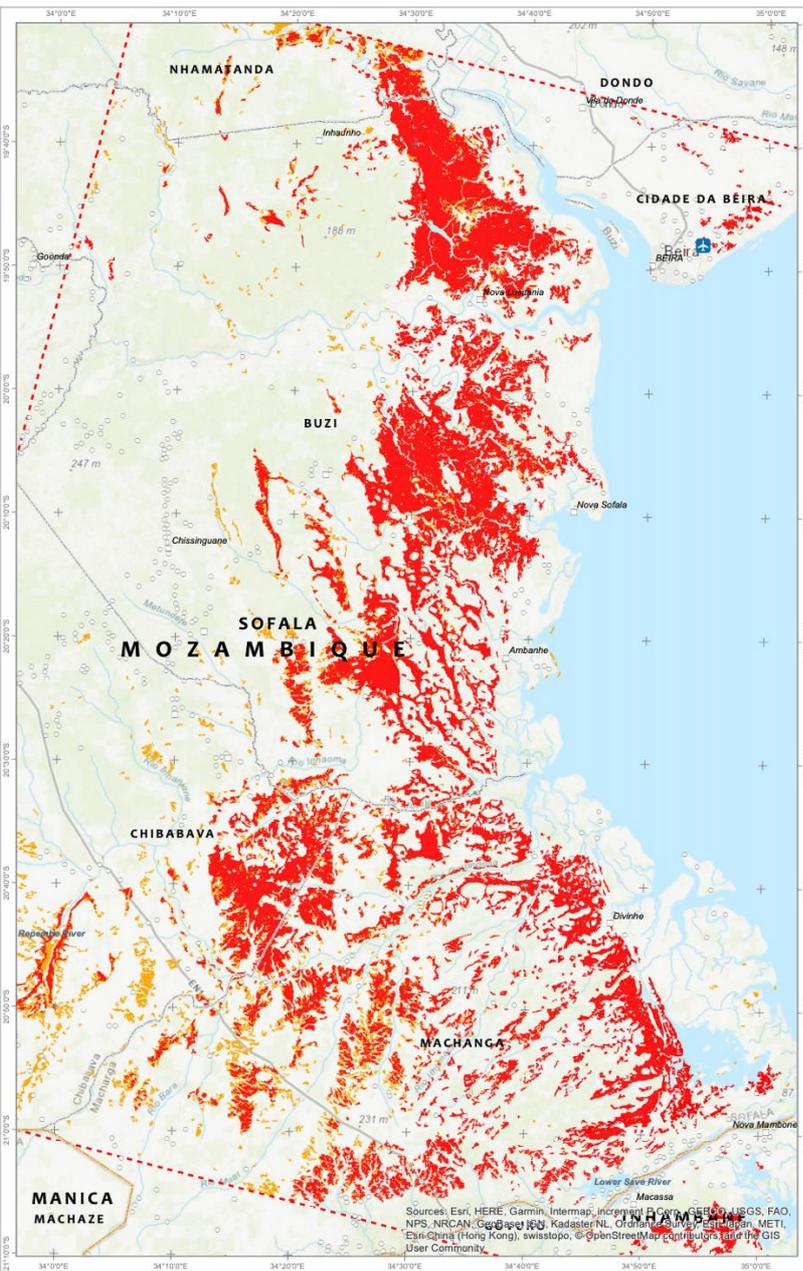


Satellite detected waters extents, as of 13 and 14 March 2019 over the Sofala province, Mozambique

This map illustrates satellite-detected surface water in Sofala province, Mozambique as observed from Sentinel-1 imagery acquired on 13 and 14 March 2019. Within the analysed area of about 20,100 sq km, a total 241,000 ha of lands appear to be flooded as of 14 March 2019. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

Legend

- City / Town
- Settlement
- Airport
- Province boundary
- District boundary
- Analysis extent
- Satellite detected water [13 March 2019]
- Satellite detected water [14 March 2019]



Analysis conducted with SNAP 6.0 ArcMap v10.6.1
 Coordinate System: WGS 1984 UTM Zone 36S
 Projection: Transverse Mercator
 Datum: WGS 1984
 Units: Meter

Satellite Data (Post): Sentinel-1
 Imagery Dates: 13 and 14 March 2019
 Resolution: 10 m
 Copyright: Copernicus 2019 / ESA
 Source: ESA

Satellite Data (Pre): Sentinel-1
 Imagery Date: 25 January 2019
 Resolution: 10 m
 Copyright: Copernicus 2019 / ESA
 Source: ESA

Boundary data: OCHA ROSEA
 Basemap: ESRI
 Waterway: HOTOSM
 Analysis: UNITAR - UNOSAT
 Production: UNITAR - UNOSAT

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Map1: Water Extents Map of Central of Mozambique on 14 March 2019. Download map [here](#).