














Satellite detected waters in Sofala Province of Mozambique as of 31 January 2021

This map illustrates satellite-detected surface waters in Sofala province of Mozambique as observed from a Sentinel-1 image acquired on 31 January 2021 at 018:15 local time and using an automated analysis with Artificial Intelligence based methods. Within the analyzed area of about 15,500 km² and, a total of about 400 km² of lands appear to be flooded. The flood extent appears to have receded of about 522 km² or 60% since 26 January 2021. Based on Worldpop population data and the detected surface waters in the analyzed area, about 24,000 people are potentially exposed or living close to flooded areas for a total population about 1 million in this zone.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR-UNOSAT.

Important Note: Flood analysis from radar images may underestimate the presence of standing waters in built-up areas and densely vegetated areas due to backscattering properties of the radar signal.

Legend

-  City/Town
-  School
-  Hospital
-  Airport
-  Primary road
-  Secondary road
-  River
-  District boundary
-  Reference water
-  Satellite detected water [31 January 2021]
-  Satellite detected water [26 January 2021]

Province / District	Total Area in AOI (km ²)	Flood Extent (km ²)	Total Population in AOI	Population Potentially Exposed	Percentage of Population Potentially Exposed in AOI
Sofala	10,634	405	906,161	23,557	3%
Buzi	3,307	56	119,208	2,550	2%
Cidade Da Beira	631	23	473,211	11,962	3%
Dondo	2,162	47	178,512	2,137	1%
Gorongosa	1,384	146	26,304	2,430	9%
Muanza	1,602	70	18,365	867	5%
Nhamatanda	1,648	63	92,564	3,611	4%

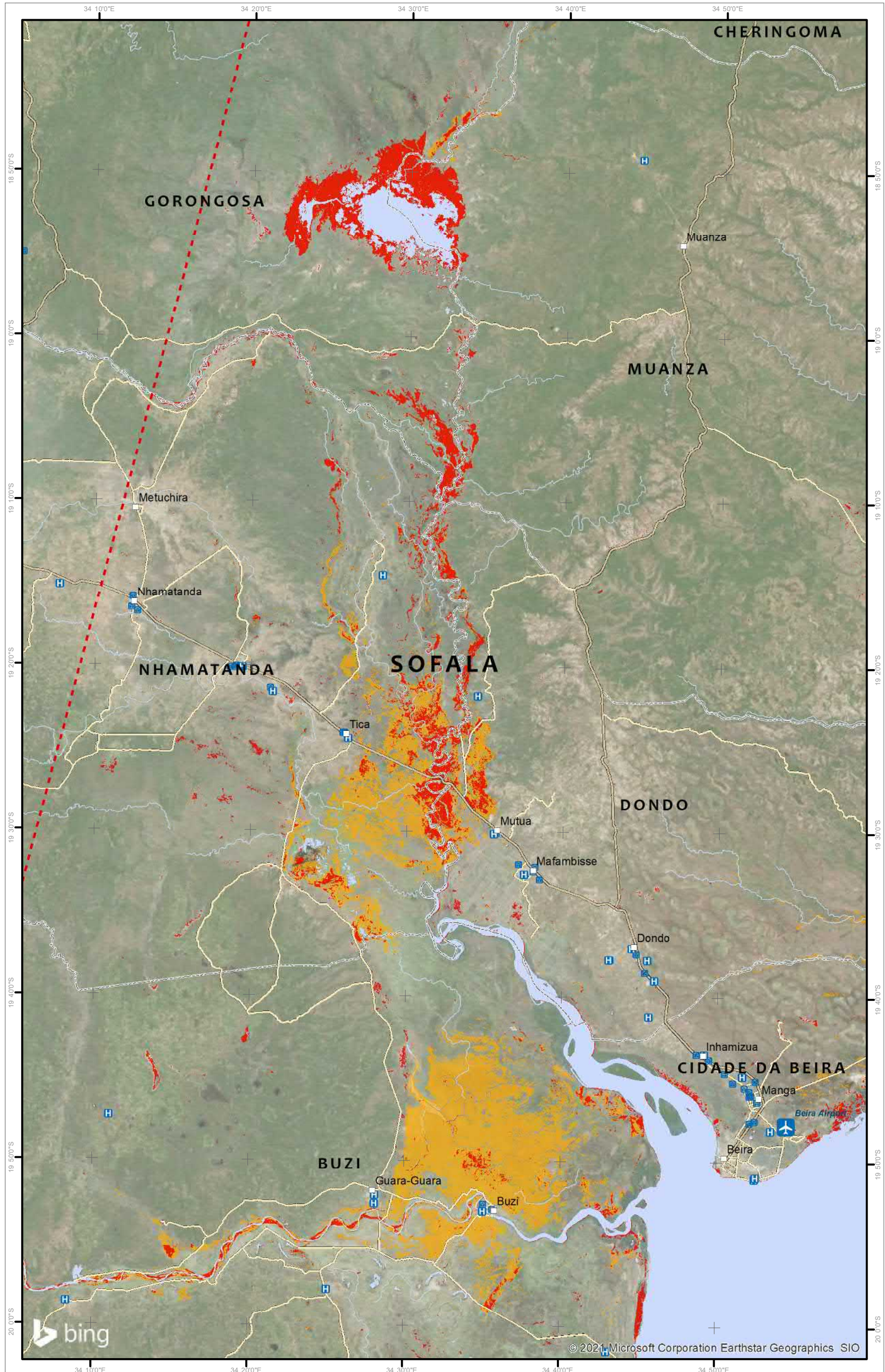


Map Scale for A3: 1:450,000



Analysis conducted with ArcGIS v10.7

Coordinate System: WGS 1984 UTM Zone 36S
 Projection: Transverse Mercator
 Datum: WGS 1984
 Units: Meter



Satellite Data : Sentinel-1
 Imagery Date (1) : 31 January 2021 (16:15 UTC)
 Imagery Date (2) : 26 January 2021 (03:09 UTC)
 Resolution : 10 m
 Copyright : Contain modified Copernicus Sentinel Data [2021]
 Source : ESA

Administrative boundaries : UNOCHA ROSEA
 Population data : WorldPop [2020]
 Reference Water : EU Commission's Joint Research Centre
 Based data : Open Street Map
 Background : Bing

Analysis: UNITAR - UNOSAT AI Based Methods
 Production: UNITAR - UNOSAT

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