


02 March 2023

PRELIMINARY SATELLITE- FLOOD ASSESSMENT REPORT



Inhambane and Sofala Provinces, Mozambique

 Status: Flood water detection after tropical cyclone Freddy

 Further action(s): continue monitoring



MOZAMBIQUE

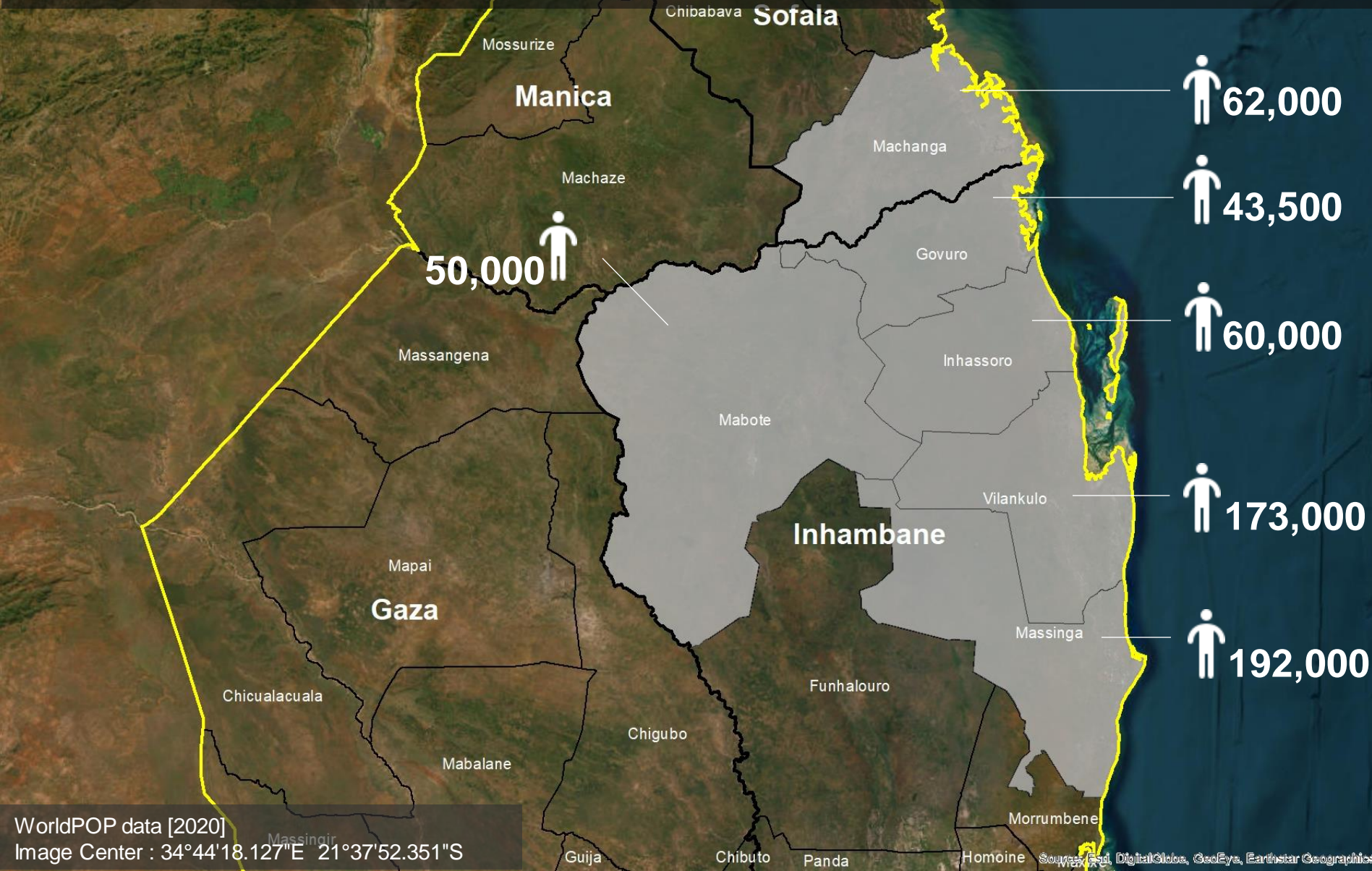
02 March 2023





POPULATION ESTIMATION

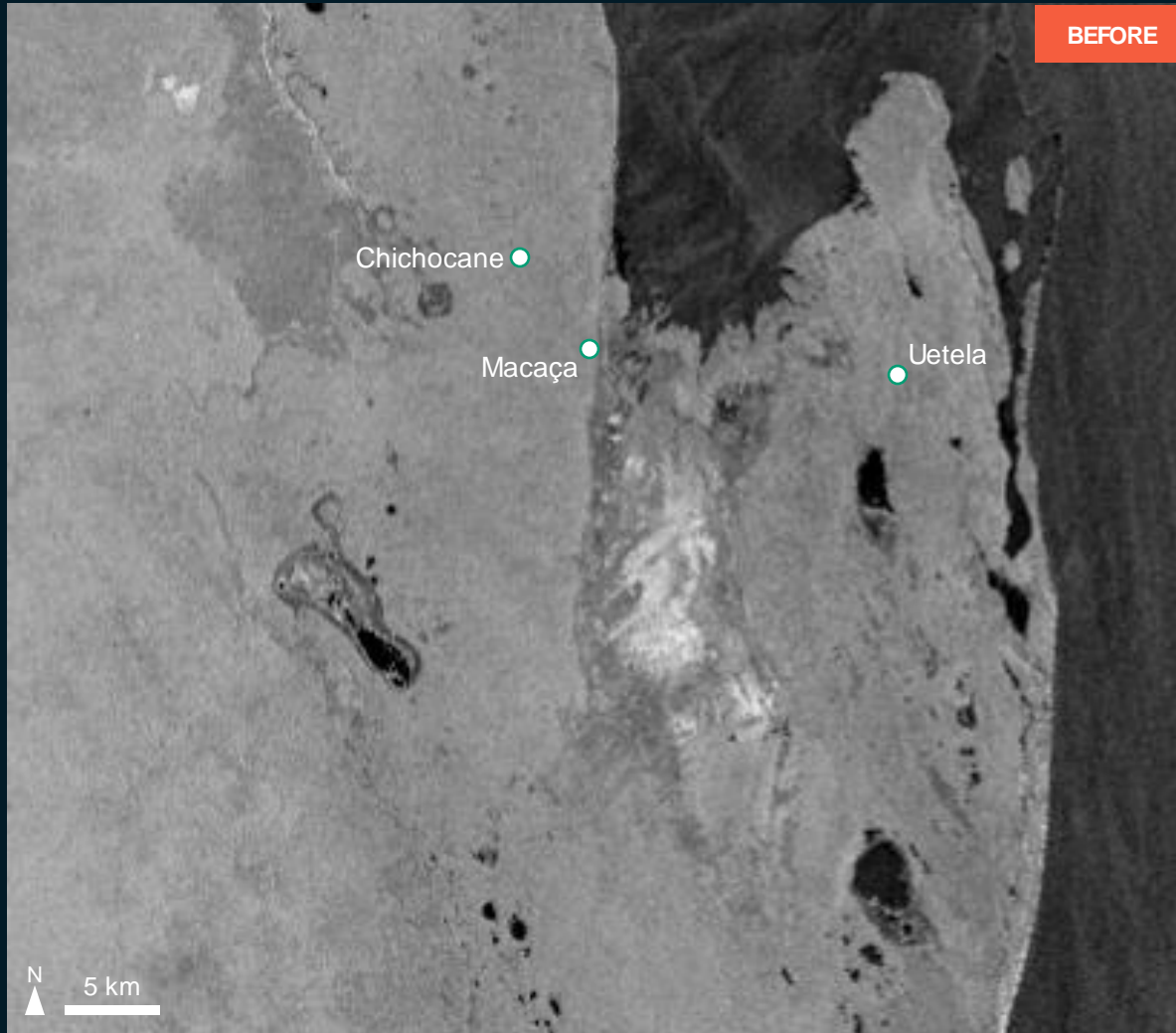
Govuro, Inhassoro, Mabote, Massinga, Vilankulo Districts, Inhambane Province, Mozambique
Machanga District, Sofala Province, Mozambique



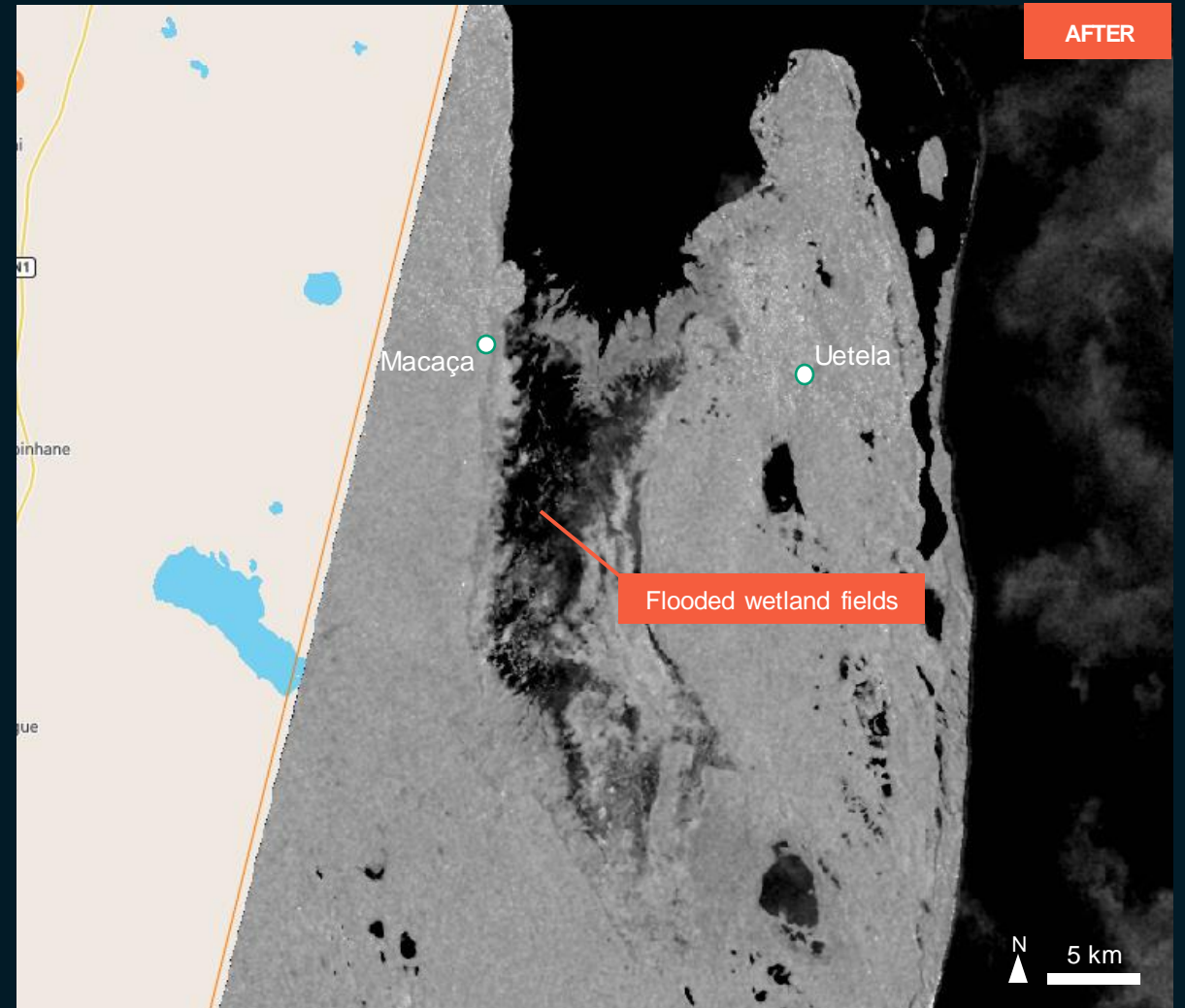
AOI 1: Vilankulo Posto, Vilankulo District, Inhambane Province

No major flood was observed in the main inhabited areas

Image center:
35°22'11.709"E
22°15'48.791"S



Sentinel-1 / 21 February 2023



RCM-2/ 1 March 2023

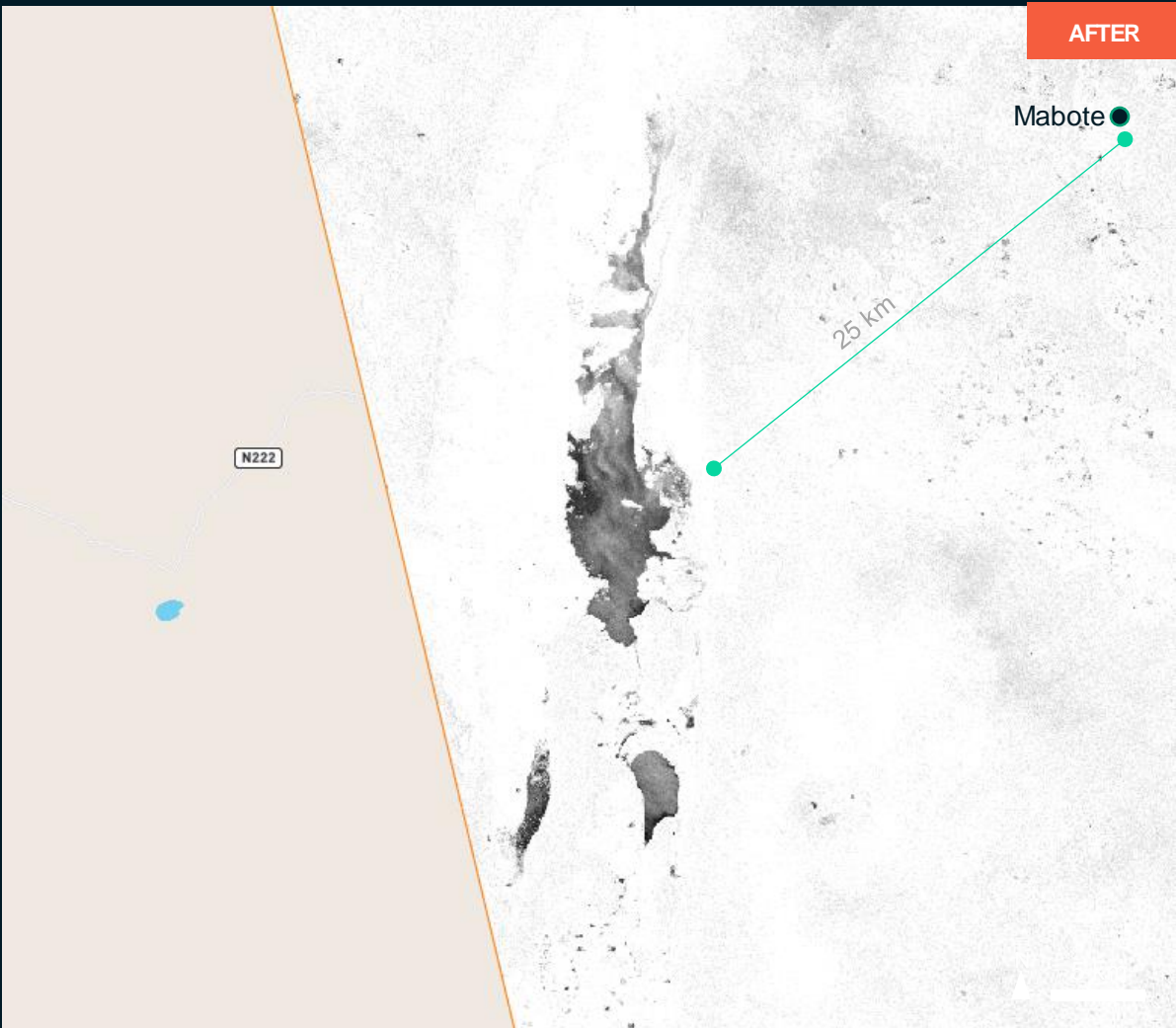
AOI 2: Mabote Posto, Mabote District, Inhambane Province

No major flood was observed in the main inhabited areas

Image center:
33°55'23.269"E
22°9'19.137"S



Sentinel-1 / 21 February 2023

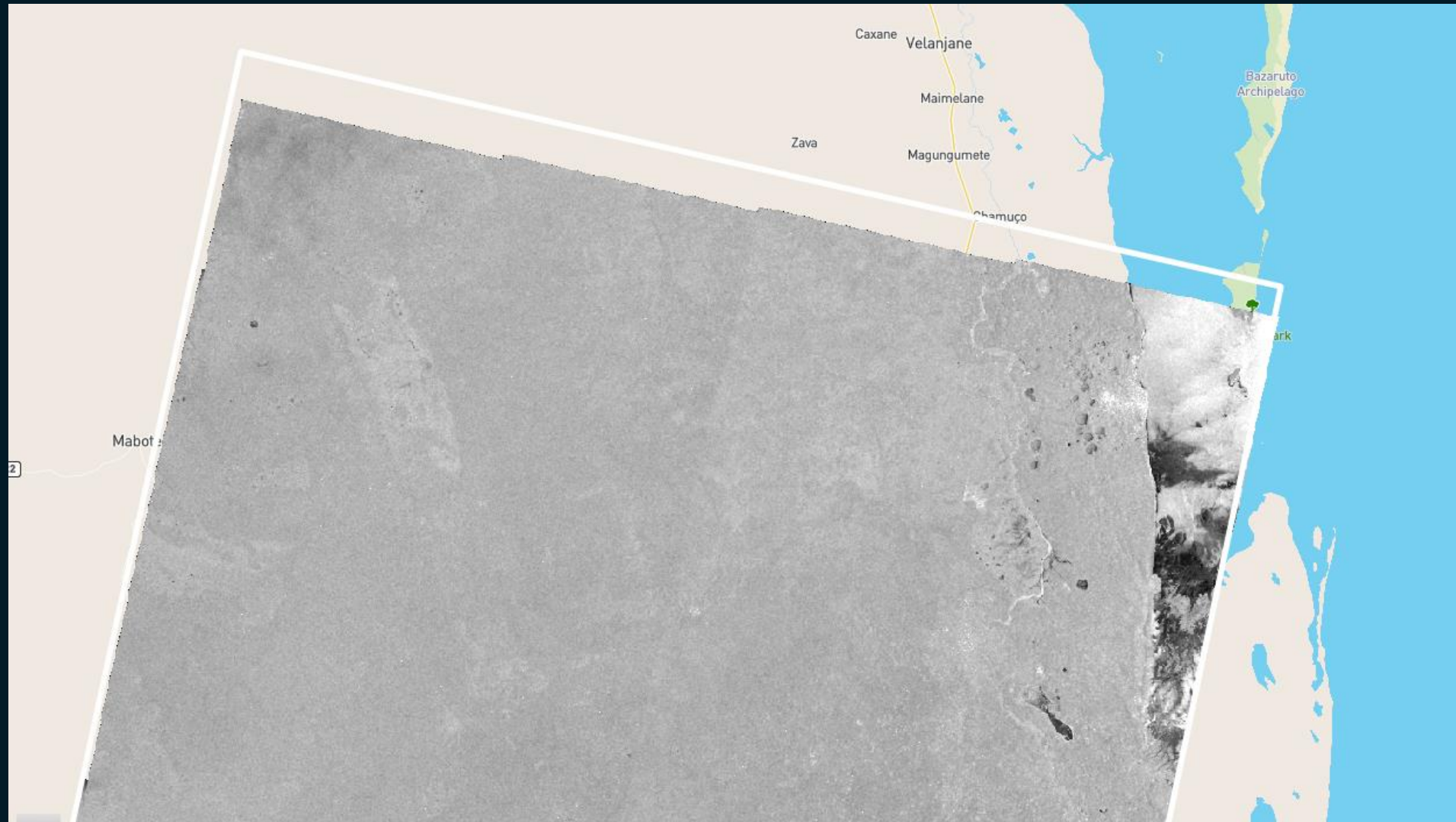


Gaofen-3 / 28 February 2023

AOI 3: Vilankulo District, Inhambane Province, Mozambique

No major flood was observed in the main inhabited areas

Image Center :
34°46'43.498"E
22°10'34.698"S



SUMMARY OF FINDINGS

- No major flood was observed in Vilankulo District, Inhambane Province on 27 March 2023;
- No major flood was observed in the main inhabited area of Mabote Pesto, Mabote District on 28 February 2023;
- Further analysis showed no major flood was observed in the main inhabited area of Vilankulo Pesto, Vilankulo District on 1 March 2023;

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Data sources:

(1) Satellite Image (Post-event)

Satellite : RCM-2
Acquisition date: 1 March 2023
Copyright : RADARSAT Constellation Mission Imagery © Government of Canada
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Source : CSA/ RCM

Satellite : RCM-1
Acquisition date: 27 February 2023
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Source : CSA/ RCM

Satellite :Gaofen-3
Acquisition date: 28 Feb. 2023
Copyright: ©CNSA/CRESDA (2023)
Source : CNSA/CRESDA

(2) Satellite Image (Pre-event)

Satellite Data : Sentinel-1
Imagery Dates : 21 Feb. 2023
Copyright: Contains modified Copernicus Sentinel Data [2023]
Source: ESA

(3) Ancillary data

Administrative boundaries: Mozambique INE (Instituto Nacional de Estatística), UNOCHA ROSEA
Population data: WorldPop [2020]
Analysis: UNITAR-UNOSAT
Production: UNITAR-UNOSAT

NOTE: This is a preliminary analysis and has not yet been validated in the field.



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