

MADAGASCAR

MENABE & ATSIMO ANDREFANA REGIONS

IMAGERY ANALYSIS: 03/01/2024 PUBLISHED 04/01/2024 V1

ANALYSED
AREA
~5,500km²

FLOOD
EXTENT
~670km²

POPULATION POTENTIALLY
EXPOSED
18,000



**TROPICAL
CYCLONE**
TC20240102MDG

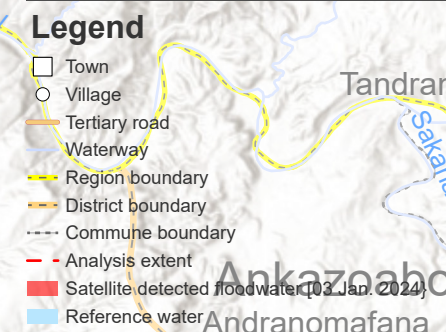


**Satellite detected water
extent in Manja, Morombe
& Ankazoabo Districts,
Madagascar as of 03
January 2024**

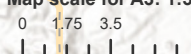
This map illustrates cumulative satellite-detected water extent in Manja, Morombe & Ankazoabo Districts, Madagascar as of 03 January 2024 as observed from a Sentinel-1 image acquired on 03 January 2024 at 05:36 local time. Within the cloud free analysed area of about 5,500 km², a total of about 670 km² of lands appear to be affected with flood waters. Based on Worldpop population data and the detected surface waters, about 18,000 people are potentially exposed, or living close to flooded areas.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to the United Nations Satellite Centre (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.



Map scale for A3: 1:300,000



Spatial Reference
Name: GCS WGS 1984
Datum: WGS 1984
Map Units: Degree

Satellite Imagery : Sentinel-1
Imagery Date: 03 January 2024, 02:36 UTC
Resolution: 10m
Copyright: Contains modified Copernicus Sentinel data [2024]
Source: ESA

Satellite Imagery : Sentinel-2
Imagery Date: 03 January 2024, 07:16 UTC
Resolution: 10m
Copyright: Contains modified Copernicus Sentinel data [2024]
Source: ESA

Boundary data: Madagascar National Disaster
Management Office (BNGRC)
Waterways: OpenStreetMap
Landcover: ESA
Population: OpenStreetMap
Road data: OpenStreetMap

Population data: Worldpop unconstrained [2020]
Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)

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