MADAGASCAR

FARAFANGANA DISTRICT, ATSIMO ATSINANANA REGION

IMAGERY ANALYSIS: 08/02/2022 PUBLISHED 14/02/2022 V1.

ANALYSED AREA
2,600km2

FLOODS EXTENT
100km2

POPULATION POTENTIALLY EXPOSED
22,400

unitar
United Nations Institute for Training and Research

UNOSAT

TROPICAL CYCLONE
TC20220201MDG

Satellite detected water extents in Farafangana district, Atsimo Atsinanana region, Madagascar as of 8 February 2022

This map illustrates satellite-detected surface waters in Farafangana district, Atsimo Atsinanana region, Madagascar as observed from a TerraSAR-X image acquired on 8 February 2022 at 05:27 local time. Within the analyzed area of 2,600km2, a total of about 100 km2 of lands appear to be flooded. Based on Worldpop population data and the detected surface waters, about 22,400 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 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.

INSET

Tangainony

Floods extent

270 m

INSET

Floods extent

100 m

Ilakatra
Vohipeno
Vohitrindry
Vohindava
Sahamadio
Marovandrika
VATOVAVY FITOVINANY
ATSIMO ATSINANANA
Amporoforo
Vohilengo
Manambavana
Evato
Emena
Ambalavato Nord
Tangainony
Mahafasa Centre
Farafangana
Fleuve Isaloha du Nosikely
Beretra Bevoay
Tangainony
Anosy Tsararafa
Mahavelo
Beretra
Tsararafa
Manantipatrana
Vohilava
Maheriraty
Anosivelo
Ambohigogo
Vohimasy
MO NANA
Vohimasy
Farafangana
Farafangana
Ivandrika
Vohitromby
Ivandrika
Vohitromby
Etrotroka Atsimo
Etrotroka
Iabohazo
Manambotra

22°30'S
22°35'S
22°40'S
22°45'S
22°50'S
22°55'S
47°35'E
47°40'E
47°45'E
47°50'E
47°55'E

153 m
192 m
178 m

Legend

- City/Town
- Village
- Analysis extent
- Region boundary
- District boundary
- Commune boundary
- Secondary road
- Tertiary road
- Orther road
- River
- Reference water
- Satellite detect water [8 Feb 2022]

DLR

Map Scale for A3: 1:130,000

N 0 1 2 4 KM

Spatial Reference
Name: WGS 1984 UTM Zone 38S
PCS: WGS 1984 UTM Zone 38S
GCS: GCS WGS 1984
Datum: WGS 1984
Projection: Transverse Mercator

Satellite Data: TerraSAR-X
Imagery Date: 8 Feb 2022 at 02:27 Local time
Resolution: 8.25 m
Copyright: DLR e.V. 2020
Distribution: Airbus DS Geo GmbH

Administrative boundaries: Madagascar National Disaster Management Office (BNGRC)
Population data: WorldPop [2020]
Reference Water: ESRI 2020 Land Cover
Populated place: OpenStreetMap

Road data: OpenStreetMap
Waterways: OpenStreetMap
Background: ESRI Topography
Background (insets): ESRI Basemap

Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)