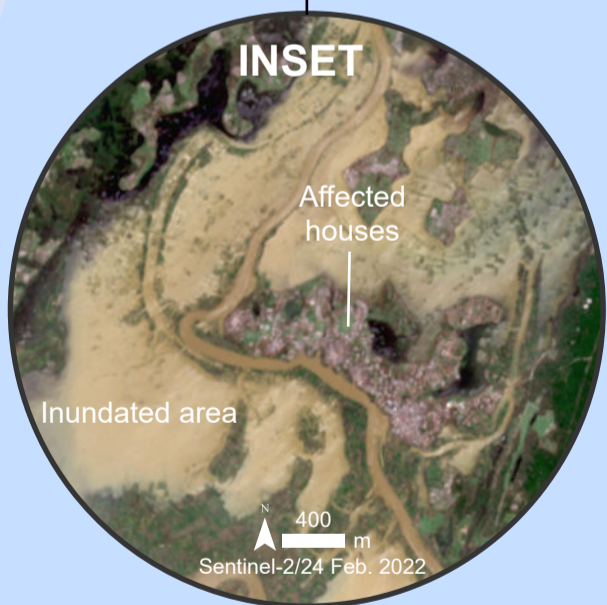
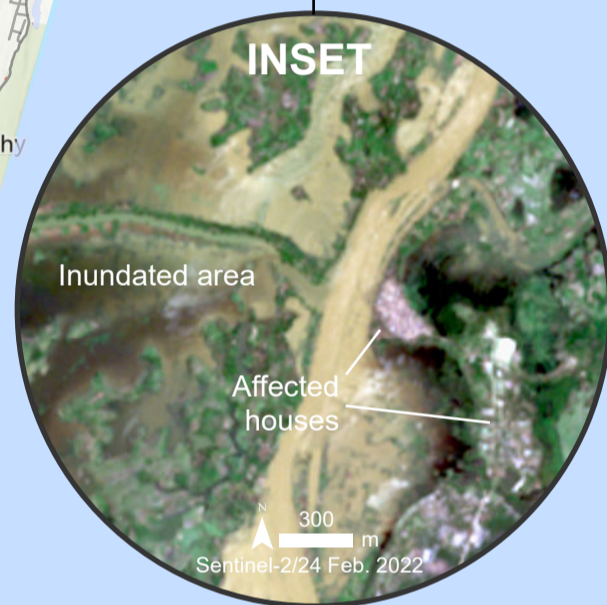
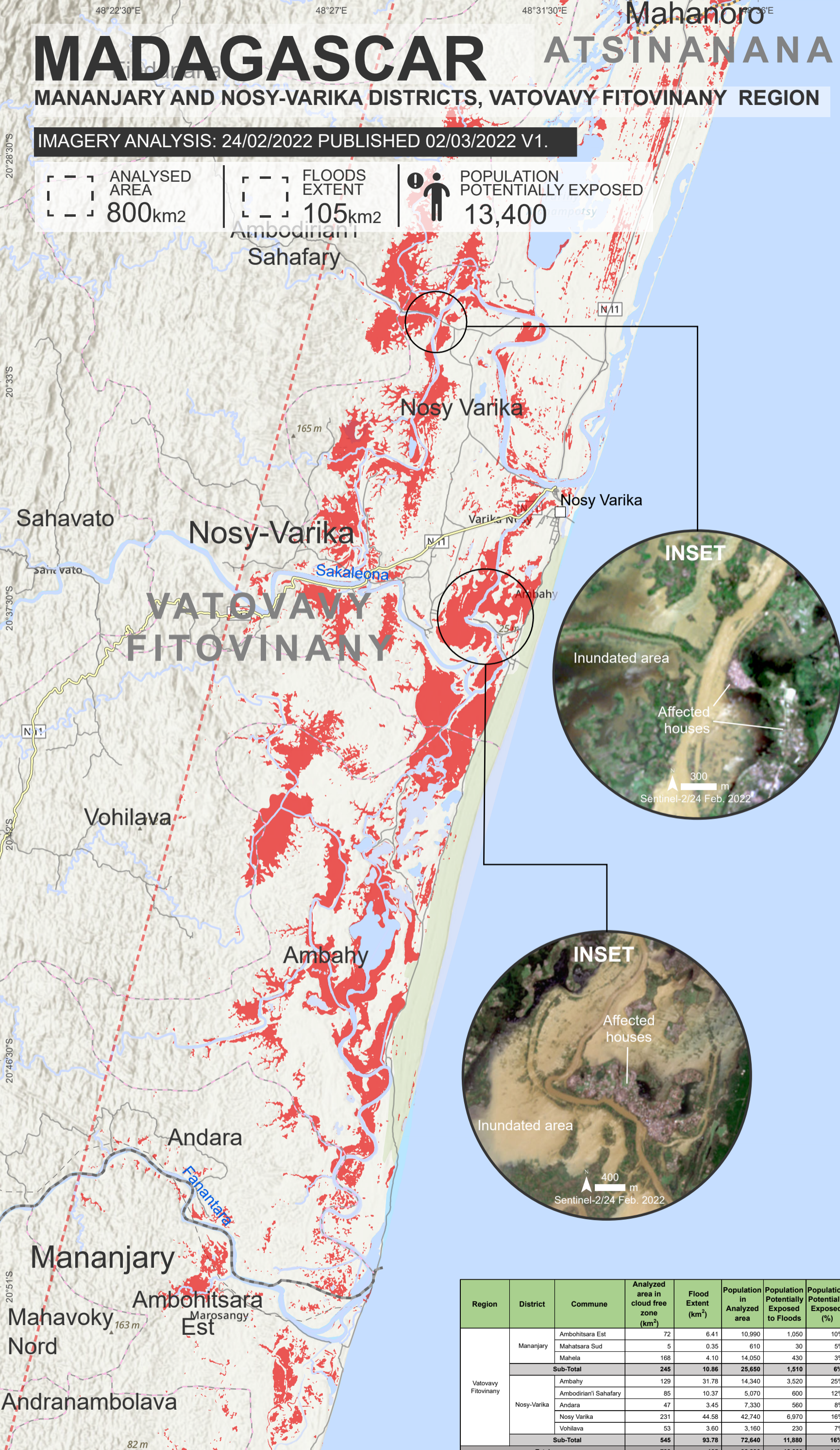


MADAGASCAR AT SINANANA

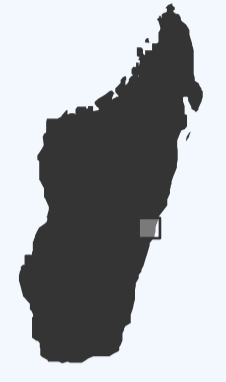
MANANJARY AND NOSY-VARIKA DISTRICTS, VATOVAVY FITOVINANY REGION

IMAGERY ANALYSIS: 24/02/2022 PUBLISHED 02/03/2022 V1.

ANALYSED AREA 800km ²	FLOODS EXTENT 105km ²	POPULATION POTENTIALLY EXPOSED 13,400
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TROPICAL CYCLONE
TC20220221MDG



Satellite detected water extents in Mananjary and Nosy-Varika Districts, Vatoavavy Fitovinany Region, Madagascar as of 24 February 2022

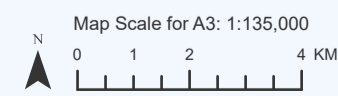
This map illustrates satellite-detected surface waters in Mananjary and Nosy-Varika Districts, Vatoavavy Fitovinany Region, Madagascar as observed from a Sentinel-2 image acquired on 24 February 2022 at 10:00 local time. Within the analyzed cloud free zones of about 800km², a total of about 105 km² of lands appear to be flooded. Based on Worldpop population data and the detected surface waters, about 13,400 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).

Legend

- City/Town
- Region boundary
- District boundary
- Commune boundary
- Secondary road
- Tertiary road
- Other road
- River
- Analysis extent
- Cloud mask
- Reference water
- Satellite detected water [24 Feb. 2022]

Region	District	Commune	Analyzed area in cloud free zone (km ²)	Flood Extent (km ²)	Population in Analyzed area	Population Potentially Exposed to Floods	Population Potentially Exposed (%)
Mananjary		Ambohitsara Est	72	6.41	10,990	1,050	10%
		Mahatsara Sud	5	0.35	610	30	5%
		Mahela	168	4.10	14,050	430	3%
Sub-Total			245	10.86	25,650	1,510	6%
Vatoavavy Fitovinany	Nosy-Varika	Ambahy	129	31.78	14,340	3,520	25%
		Ambodirian'i Sahafary	85	10.37	5,070	600	12%
		Andara	47	3.45	7,330	560	8%
		Nosy Varika	231	44.58	42,740	6,970	16%
		Vohilava	53	3.60	3,160	230	7%
Sub-Total			545	93.78	72,640	11,880	16%
Total			790	105	98,290	13,390	14%



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

Satellite Data: Sentinel-2
Imagery Date: 24 Feb. 2022 at 07:00 UTC
Resolution: 10 m
Copyright: Contains modified Copernicus Sentinel Data [2022]
Source: ESA

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)