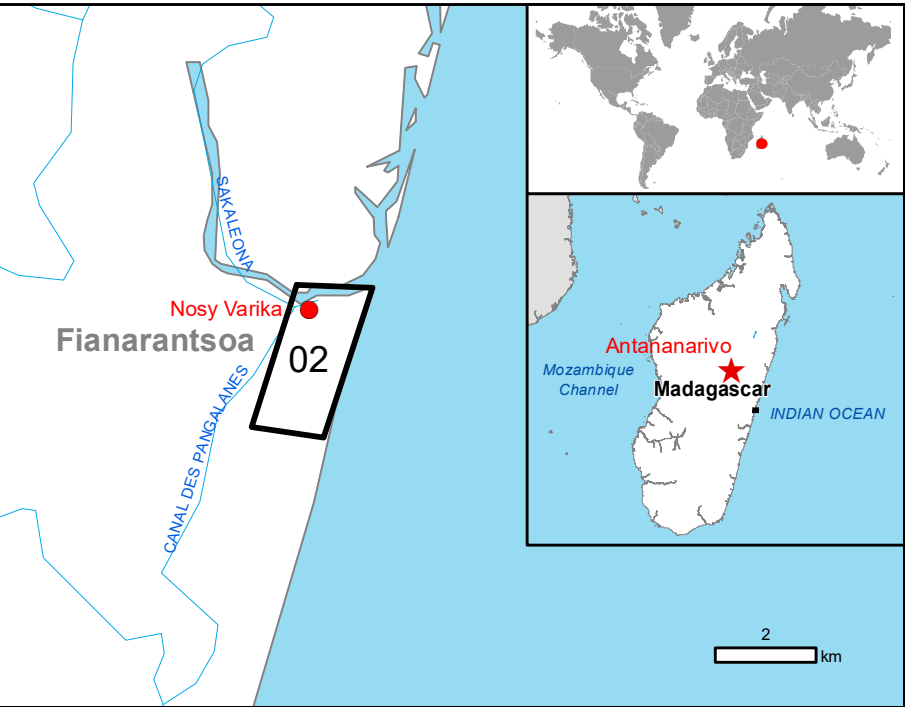


GLIDE number: 2023-00023 Activation ID: EMSR652  
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## NOSY-VARIKA - MADAGASCAR

Storm - Pre-event situation  
Reference - Overview map 01



### Cartographic Information

1:6000 Full color A1, 200 dpi resolution

0 0.125 0.25 0.5 km

Grid: WGS 1984 UTM Zone 39S map coordinate system  
Tick marks: WGS 84 geographical coordinate system

### Legend

General Information	Hydrography	Facilities
<b>Area of Interest</b>	<b>Coastline</b>	<b>Sport and recreation constructions</b>
<b>Placenames</b>	<b>River</b>	<b>Transportation</b>
<b>Built-Up Area</b>	<b>Lake</b>	<b>Land Subject to Inundation</b>
<b>Residential</b>	<b>Open Water</b>	<b>Physiography &amp; Land Use - Land Cover</b>
<b>Office</b>	<b>River</b>	<b>Features available in the vector package</b>
<b>Police station</b>		
<b>Industrial</b>		
<b>Public entertainment</b>		
<b>School, university and research</b>		
<b>Hospital or institutional care</b>		

Exposure within the AOI	Unit of measurement	Total in AOI
Estimated population	Number of inhabitants	29,915
Built-up		
Residential buildings	No.	2,242
Office buildings	No.	2
Police station	No.	1
Industrial buildings	No.	1
Public entertainment buildings	No.	1
School, university and research buildings	No.	5
Hospital or institutional care buildings	No.	2
Transportation		
Bridges and elevated highways	km	0.2
Local Road	km	6.5
Cart Track	km	7.2
Heterogeneous agricultural areas	ha	66.0
Forests	ha	160.0
Shrub and/or herbaceous vegetation association	ha	95.3
Other	ha	116.5

### Map Information

Tropical Cyclone Freddy formed off the southern coast of Indonesia in early February and strengthened into a significant storm with maximum sustained winds at 165 mph. In the next days, it's expected to reach the coasts of Madagascar after passing near the islands of Mauritius and La Reunion. Its impact is also expected to be felt in parts of Mozambique, Zimbabwe and South Africa: up to two million people live in its expected path. It is a candidate to be the strongest and most dangerous storm to form so far during 2023, with heavy rains, strong winds and widespread flash floods anticipated.

The present map shows basic topographic features derived from public datasets, refined by means of visual interpretation of pre-event imagery.

### Relevant date records (UTC)

Event	19/02/2023 14:41	Situation as of	07/02/2022 00:00
Activation	19/02/2023 14:41	Map production	20/02/2023

### Data sources

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 07/02/2022, GSD 1 m, approx. 0% cloud coverage in AOI).

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), Wikimapia.org, GeoNames 2015, Globe Land 30 (2020), Global Administrative Areas (2012), refined by the producer.

Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS\_Population\_Grid © European Commission, 2019  
[https://ghsl.jrc.ec.europa.eu/ghs\\_pop2019.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php)

Digital Elevation Model: SRTM (30 m) (NASA/USGS)

### Disclaimer

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Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by Telespazio Iberica released by e-GEOS (ODO).

For the latest version of this map and related products visit <https://emergency.copernicus.eu/EMSR652>

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