

# Mahanoro - MADAGASCAR

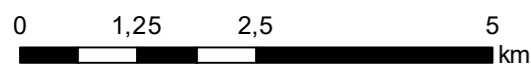
## Wind storm - Pre-event situation

### Reference Map

#### Cartographic Information

1:80000

Full color ISO A1, low resolution (100 dpi)



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

#### Legend

##### General Information

Area of Interest

##### Placenames

Placename

##### Built-Up Area

Built-Up Area

##### Hydrography

Coastline

River

Stream

Lake

River

##### Transportation

Bridge and elevated highway

Secondary Road

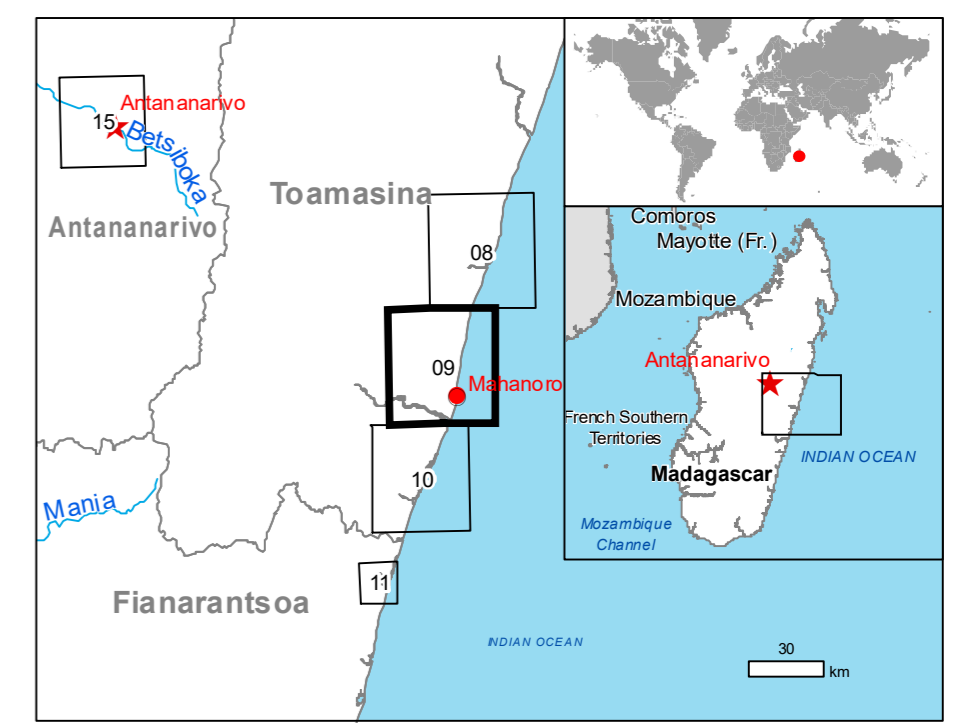
Local Road

Cart Track

##### Land use - Land Cover

Features available in vector data

Exposure within the AOI		Unit of measurement	Total in AOI
Estimated population		No. of people	104239
Settlements	Built-up Area	ha	328.4
Transportation	Bridge and elevated highway	No.	9
	Secondary Road	km	95.0
	Local Road	km	118.4
Land use	Cart Track	km	214.5
	Permanent crops	ha	5335.9
	Heterogeneous agricultural areas	ha	113337.6
	Forests	ha	9797.5



#### Map Information

Tropical Cyclone AVA made landfall on the north-east coast of Madagascar on 5 January, moving south and west over the course 6 January, causing heavy rainfall and strong winds. Flooding, interruptions to communications networks and power cuts have been reported in the north, north-east and eastern area of the country.

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

#### Data Sources

Pre-event image: Landsat 8 © courtesy of the U.S. Geological Survey (acquired on 25/03/2017 at 06:46 UTC, GSD 15 m, approx. 0% cloud coverage in AOI).

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2017, refined by the producer.

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

Population data: Landsat 2010 © UT BATTELLE, LLC  
 Digital Elevation Model: SRTM (90m) (NASA/USGS)

#### Disclaimer

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Map produced by SIRS released by SERTIT (ODO).

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#### Relevant date records

Event	05/01/2018	Situation as of	N/A
Activation	06/01/2018	Map production	07/01/2018