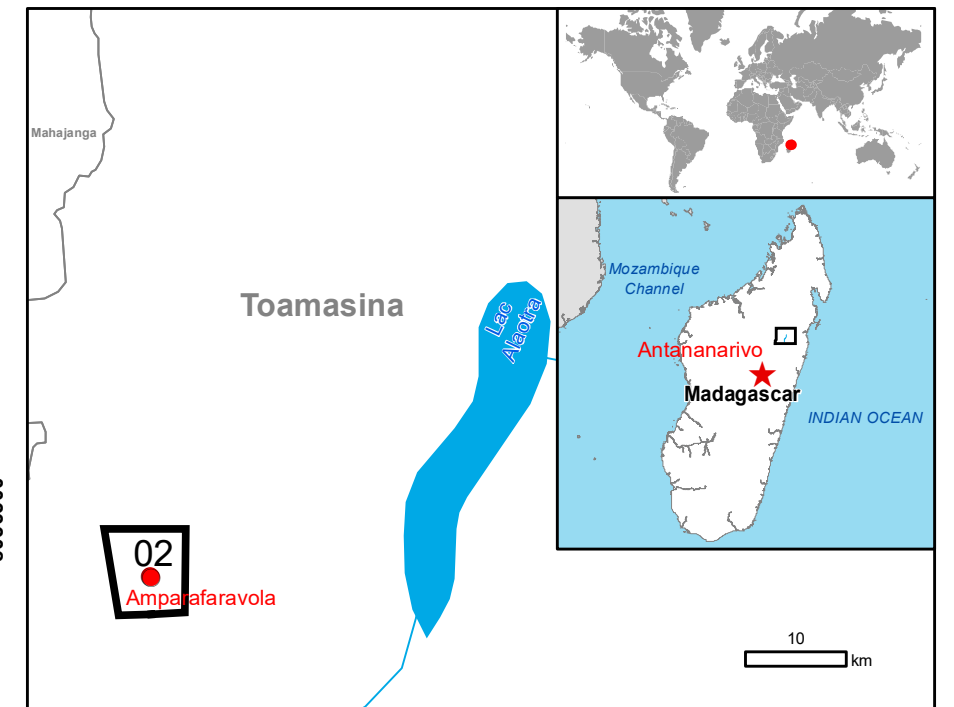


GLIDE number: ST-2022-000138-MDG Activation ID: EMSR559
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Amparafaravola - MADAGASCAR

Flood - Situation as of 27/01/2022

Delineation - Overview map 01



Cartographic Information

1:16000 Full color A1, 200 dpi resolution

0 0.25 0.5 1 km

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

Legend	
Crisis Information	Hydrography
Flooded Area	River
Area of Interest	Stream
Not Analyzed	Land Subject to Inundation
Placenames	Reservoir
Placename	River
Transportation	Secondary Road
Local Road	Local Road
Cart Track	Cart Track
Land Use - Land Cover	Features available in the vector package
Built-up Area	Features available in the vector package

Consequences within the AOI		Unit of measurement		Affected	Total in AOI
				ha	sq. ft.
Flooded area				1	26,247
Estimated population				No.	0
Built-up	Public entertainment buildings	No.	0	1	
	Buildings used as places of worship and for religious activities	No.	0	1	
	Unclassified	No.	0	1,493	
Transportation	Secondary Road	km	0.0	9.7	
	Local Road	km	0.0	12.0	
	Cart Track	km	0.0	35.2	
Land use	Heterogeneous agricultural areas	ha	87.6	2,464.0	
	Forests	ha	0.0	360.4	
	Shrub and/or herbaceous vegetation association	ha	0.0	3,215.1	
	Other	ha	0.1	177.1	

Map Information

Intense rainfall caused by two different tropical weather systems which have impacted Madagascar over the last weeks has driven flooding, landslides, destruction of infrastructure and loss of life, particularly affecting the country's capital Antananarivo, and other areas of Analamanga Region, in the centre of the country. More than 62,000 people have been affected in 7 regions. At least 34 people have died almost all of them in the capital, where traditional houses collapsed, and others were swept away by landslides.

The present map shows the flood delineation in the area of Amparafaravola (Madagascar). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The scale of analysis is 1:10,000. The estimated geometric accuracy (RMSE) is 6.0 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 576 sq m.

Relevant date records (UTC)

Event	18/01/2022 00:00	Situation as of	27/01/2022 02:14
Activation	25/01/2022 18:37	Map production	28/01/2022

Data sources

Pre-event image: WorldView-2 © DigitalGlobe Digital Globe, Inc. (2021), (acquired on 10/01/2021 at 06:58 UTC, GSD 0.5 m, approx. 0 % cloud coverage in AoI, 24.9° off-nadir angle), provided under COPERNICUS by the European Union, ESA and European Space Imaging, all rights reserved, all rights reserved.

WorldView-3 © DigitalGlobe Digital Globe, Inc. (2021), (acquired on 10/01/2021 at 07:17 UTC, GSD 0.5 m, approx. 0.14 % cloud coverage in AoI, 26.2° off-nadir angle), provided under COPERNICUS by the European Union, ESA and European Space Imaging, all rights reserved, all rights reserved.

Post-event image: RADARSAT Constellation Mission Imagery © Government of Canada, (2022) (acquired on 27/01/2022 at 02:14 UTC, GSD 3 m). RADARSAT is an official mark of the Canadian Space Agency – provided by International Charter (call ID 658), all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2021), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer.

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

Disclaimer

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Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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

Map produced by ITHACA released by e-GEOS

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