

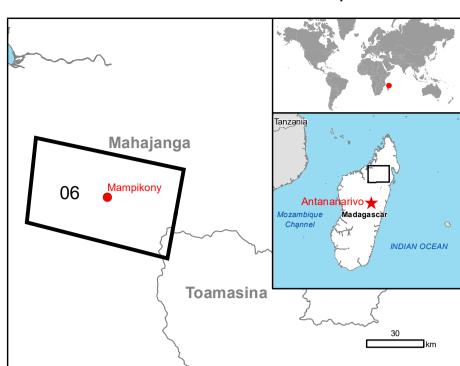
Product N.: 06MAMPIKONY, v1

Activation ID: EMSR645

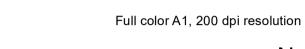
Mampikony - MADAGASCAR

Storm - Situation as of 27/01/2023

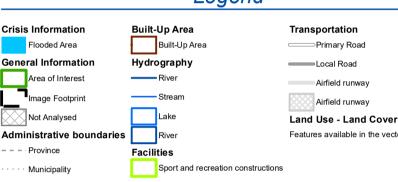
Delineation - Overview map 01



Cartographic Information



Legend



| Placename | | | |
|-------------------------|--------------------------------------|----------|--|
| | | | |
| | | | |
| equences within the AOI | | | |
| | Unit of measure | surement | |
| ed area | | ha | |
| ated population | Number of inhabitants | | |
| ηp | Residential Buildings | ha | |
| | Wholesale and retail trade buildings | ha | |
| | Industrial buildings | ha | |

| | Industrial buildings | ha | 0.0 | 1.9 |
|----------------|--|----|---------|-----------|
| Transportation | Airfield runways | ha | 0.0 | 12.7 |
| | Airfield runways | km | 0.2 | 1.3 |
| | Primary Road | km | 1.0 | 79.1 |
| | Local Road | km | 1.3 | 36.1 |
| | Cart Track | km | 15.1 | 443.7 |
| Facilities | Sport and recreation constructions | ha | 0.9 | 2.2 |
| | Navigable canals | km | 0.1 | 0.1 |
| Land use | Heterogeneous agricultural areas | ha | 8 531.6 | 21 206.8 |
| | Forests | ha | 2 398.2 | 117 708.4 |
| | Shrub and/or herbaceous vegetation association | ha | 3 991.5 | 213 858.2 |
| | Open spaces with little or no vegetation | ha | 107.7 | 626.9 |
| | Inland wetlands | ha | 2 278.8 | 6 192.1 |
| | Other | ha | 218.9 | 3 064.3 |

Map Information

Tropical Storm Cheneso reached the Northeastern coast of Madagascar, in the Sava Region, on the morning of 19 January. Wind gusts of up to 120 km/h were recorded as the storm headed South-West, in addition to heavy rainfall reported particularly in the North, triggering flash flooding and multiple landslides. Approximately 700 homes were damaged, affecting over 2000 people, along with one fatality and one missing person. Numbers are expected to

For the Diana, Sava and Anakanjirofo regions (Northeastern coast), a red alert was issued, implying an imminent threat of further torrential rainfall and extreme flooding. Copernicus EMS is activated to provide flood extent and damage assessment.

The present map shows the flood delineation in the area of Mampikony (Madagascar). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The scale of analysis is 1:25000. The estimated geometric accuracy (RMSE) is 20.0 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 2500 sq m.

Relevant date records (UTC)

| Activation 25/01/2023 10:49 Map production 27/01/2023 | Event | 19/01/2023 01:00 | Situation as of | 27/01/2023 02:26 |
|---|------------|------------------|-----------------|------------------|
| | Activation | 25/01/2023 10:49 | Map production | 27/01/2023 |

Data sources

Pre-event image: Sentinel-2A/B (2023) (acquired on 29/12/2022 at 07:12 UTC, GSD 10.0 m, approx. 0.5% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA, Sentinel-2A/B (2023) (acquired on 07/10/2022 at 07:01 UTC, GSD 10.0 m, approx. 0% cloud coverage in AoI, 0° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Post-event image: Sentinel-1A/B (2023) (acquired on 27/01/2023 at 02:26 UTC, GSD 10.0 m) provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), Wikimapia.org,

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 Digital Elevation Model: SRTM (90 m) (NASA/USGS)

Disclaimer

of our ability, within a very short time frame, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union. 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 SERTIT (ODO).

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