



EMSR702 - AO114
Storm in Vanuatu
AMBRYM

Situation as of 28/10/2023 22:39 UTC
Grading MONIT01 - Overview map 01



Potentially affected
population
~ Not available

Affected Built-up and Transportations



Built-Up
173 No.

Crisis Information

Built Up Grading

- Destroyed
- Damaged
- Possibly damaged

Transportation Grading

- Track, No visible damage
- Airfield runway, No visible damage
- Local road, No visible damage

General Information

Area of Interest

Detail map

Not Analysed

Administrative boundaries

Province

Placenames

Placename

Hydrography

Coastline

River

Stream

Lake

Event:

In the evening of 24 October 2023 local time, the Vanuatu archipelago was hit by the passage of a new tropical cyclone, named LOLA, with winds of up to 145 km/h. The cyclone has passed Solomon Island, and will have an impact on parts of Vanuatu. The event is on-going and increasing over the next 48 hours with very heavy rainfall, strong wind and storm surge are forecast over the whole Vanuatu with damage expected to affect buildings and infrastructure. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

Data sources and analysis: Pre-event image: WorldView-2 © Maxar Technologies, Inc. (2022), (acquired on 28/05/2022 at 23:08 UTC, resolution 0.5 m). GeoEye © Maxar Technologies, Inc. (2022), (acquired on 12/06/2022 at 23:00 UTC, resolution 0.5 m). GeoEye © Maxar Technologies, Inc. (2023), (acquired on 11/05/2023 at 23:14 UTC, resolution 0.5 m). Post-event image: WorldView-2 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 22:39 UTC, resolution 0.5 m). This image is used as background image. Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 26/10/2023 at 22:57 UTC, resolution 0.5 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer. Copernicus Global Land Service: Land Cover (2019). Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2023 https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php

Digital Elevation Model: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus.2020).

The thematic layer has been derived from post-event satellite image by means of visual interpretation.

Map produced by e-GEOS released by e-GEOS on the 29/10/2023.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR702>



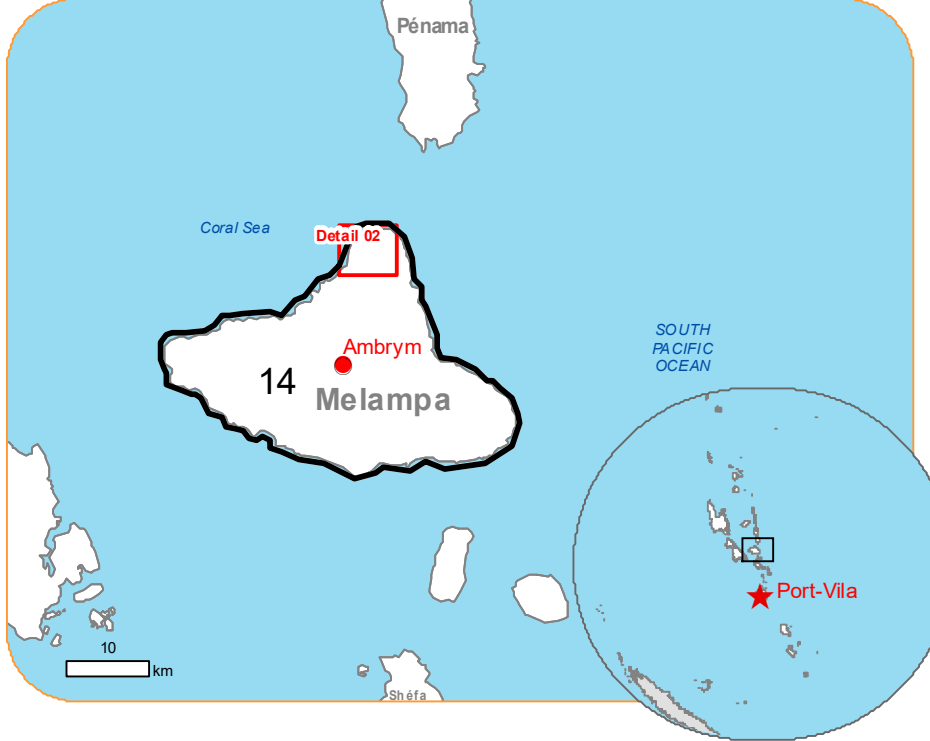
PROGRAMME OF THE
EUROPEAN UNION





EMSR702 - AO114
Storm in Vanuatu
AMBRYM

Situation as of 28/10/2023 22:39 UTC
Grading MONIT01 - Detail map 02



Potentially affected
population
~ Not available

Affected Built-up and Transportations



Built-Up
141 No.
(81.5% of total affected)

Crisis Information

Built Up Grading

- Destroyed
- Damaged
- Possibly damaged

Transportation Grading

- Track, No visible damage

General Information

Area of Interest

Not Analysed

Placenames

Placename

Hydrography

Coastline

River

Event:

In the evening of 24 October 2023 local time, the Vanuatu archipelago was hit by the passage of a new tropical cyclone, named LOLA, with winds of up to 145 km/h. The cyclone has passed Solomon Island, and will have an impact on parts of Vanuatu. The event is on-going and increasing over the next 48 hours with very heavy rainfall, strong wind and storm surge are forecast over the whole Vanuatu with damage expected to affect buildings and infrastructure. Copernicus EMS Rapid Mapping is requested to provide damage assessment emergency mapping.

Data sources and analysis: Pre-event image: WorldView-2 © Maxar Technologies, Inc. (2022), (acquired on 28/05/2022 at 23:08 UTC, resolution 0.5 m). GeoEye © Maxar Technologies, Inc. (2022), (acquired on 12/06/2022 at 23:00 UTC, resolution 0.5 m). GeoEye © Maxar Technologies, Inc. (2023), (acquired on 11/05/2023 at 23:14 UTC, resolution 0.5 m). Post-event image: WorldView-2 © Maxar Technologies, Inc. (2023), (acquired on 28/10/2023 at 22:39 UTC, resolution 0.5 m). This image is used as background image. Pleiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 26/10/2023 at 22:57 UTC, resolution 0.5 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer, Copernicus Global Land Service: Land Cover (2019).

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

Population data: GHS Population Grid © European Commission, 2023 https://ghsl.jrc.ec.europa.eu/ghs_pop2023.php

Digital Elevation Model: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus2020).

The thematic layer has been derived from post-event satellite image by means of visual interpretation.

Map produced by e-GEOS released by e-GEOS on the 29/10/2023.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR702>



PROGRAMME OF THE
EUROPEAN UNION



Consequences within the AOI							
	Unit of measurement		Destroyed	Damaged	Possibly damage*	Total affected**	Total in AOI
Estimated population	Number of inhabitants					NA	~ 8,800
Built-up	Residential Buildings	No.	4	18	15	37	444
	Wholesale and retail trade buildings	No.	0	1	0	1	10
	School, university and research buildings	No.	0	0	0	0	5
	Hospital or institutional care buildings	No.	0	0	0	0	1
	Buildings used as places of worship and for religious activities	No.	1	0	0	1	4
	Other buildings not elsewhere classified	No.	0	0	0	0	1
	Unclassified	No.	20	39	75	134	3,906
Transportation	Airfield runways	km	0	0	0	0	1.8
	Local Road	km	0	0	0	0	2.3
	Cart Track	km	0	0	0	0	77.2
Facilities	Sport and recreation constructions	ha	0	0	0	0	0.01
Land use	Heterogeneous agricultural areas	ha	0	0	0	0	3.5
	Forests	ha	0	0	0	0	55,921.7
	Shrub and/or herbaceous vegetation association	ha	0	0	0	0	1,565.1
	Open spaces with little or no vegetation	ha	0	0	0	0	2,406.8
	Inland wetlands	ha	0	0	0	0	4,132.1
	Other	ha	0	0	0	0	10,162.5
<p>* Presence of damage proxies and proximity with destroyed/damaged asset</p> <p>** Sum of all damage classes</p>							

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

© European Union / Copernicus Emergency Management Service

Data access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, are available in the Crisis Information Package and the Base Layer Package (for reference data).

The table above is available in editable format in the Crisis Information Package.

All products and data are also available for download on the portal.

Access to the portal



PROGRAMME OF THE
EUROPEAN UNION

