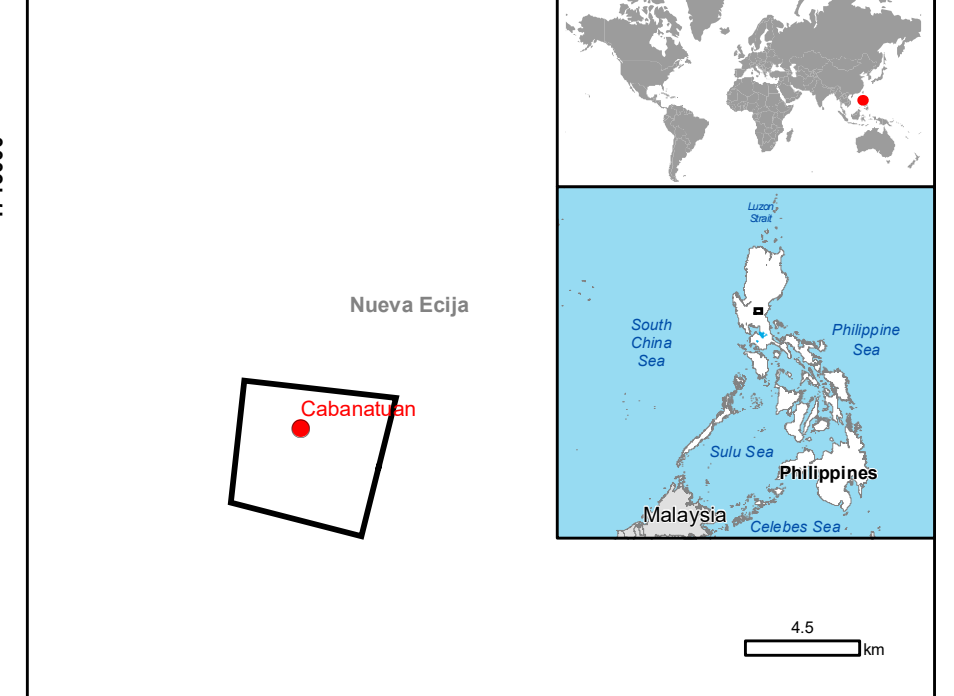


GLIDE number: TC-2022-000318-PHL Activation ID: EMSR636
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CABANATUAN CITY - PHILIPPINES

Storm - Situation as of 01/10/2022
Grading - Overview map 01



Cartographic Information

1:12000 Full color A1, 200 dpi resolution

0 0.25 0.5 1 km

Grid: WGS 1984 UTM Zone 51N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend	
Crisis Information	Transportation Grading
Flooded Area	Road, Damaged
Flood trace	Road, Possibly damaged
Built Up Grading	Highway, No visible damage
Destroyed	Primary Road, No visible damage
Damaged	Secondary Road, No visible damage
Possibly damaged	Local Road, No visible damage
	Cart Track, No visible damage
	Long-distance railway, No visible damage
General Information	Administrative boundaries
Area of Interest	Municipality
Detail map	Placenames
Not Analysed	Placename
Hydrography	River
Stream	Lake
River	Land Use - Land Cover
	Land Use - Land Cover

Consequences within the AOI					
	Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flooded area	ha				7.1
Flood trace	ha			0.5	
Estimated population				65	106,343
Built-up	No	5	7	20	1,845
Transportation	km	0.0	0.2	0.6	0.8
		High damage	Moderate damage	Negligible to slight damage	
Land use	ha	NA	NA	7.6	2,991.2

* Presence of damage processes and proximity with destroyed/damaged asset
** Sum of all damage classes
Full table available in the vector package

Map Information

Noru, known locally as Karding, first made landfall as a super typhoon on the 25th September, but later weakened at 20:20 local time (12:20 GMT) on Sunday. Its peak wind increased from 80 to 160 mph in 24 hours as it transformed from a tropical storm to the equivalent of a Category 5 hurricane. This leap was the fastest 24-hour intensification rates on record for any tropical cyclone. More than 74,000 people had been evacuated from the typhoon's path, and officials had earlier issued warnings of "serious flooding" in areas of the capital, Manila. The Copernicus EMS Rapid Mapping was requested to provide Damage Assessment products.

The present map shows the damage grade assessment in the area of Cabanatuan City (Philippines). The thematic layer has been derived from post-event satellite image by means of visual interpretation. The scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 2.5 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 100 sq m.

Relevant date records (UTC)

Event	25/09/2022 00:00	Situation as of	01/10/2022 02:12
Activation	26/09/2022 10:52	Map production	02/10/2022

Data sources

Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 29/10/2022, GSD 0.5 m, approx. 0% cloud coverage in AOI).
Post-event image: Pleiades-1A/B © CNES (2022), distributed by Airbus DS (acquired on 01/10/2022 at 02:12 UTC, GSD 0.5 m, approx. 20% cloud coverage in AOI, 41.1° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), Wikimedia.org, GeoNames 2015, Copernicus Global Land Service: Land Cover (2019), 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

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

Disclaimer

Products elaborated in this Copernicus EMS Rapid Mapping activity are realized to the best 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.

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

Map produced by CLS released by e-GEOS (ODD).

For the latest version of this map and related products visit
<https://emergency.copernicus.eu/EMSR636>

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