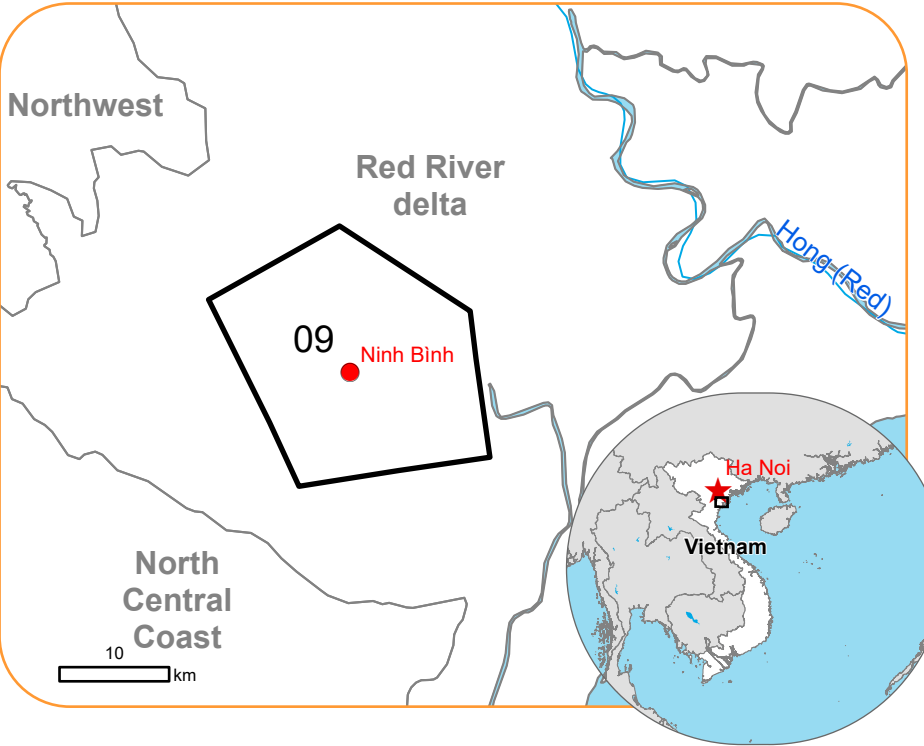




Situation as of 14/09/2024 03:44 UTC
Delineation - Overview map 01



Flooded area
894.0 ha

Potentially affected
population
~4

Potentially Affected Built-up and Transportations

Road
17.6 km

Railway
0.3 km

Built-up
8.7 ha

Estimated flood depth (m)

0.50 - 1.00

General Information

Area of Interest

Not Analysed

Administrative Boundaries

Region

Province

Municipality

Placenames

Placename

Built-Up Area

Residential

Non residential

School, university and
research buildings

Hospital or institutional
care buildings

Hydrography

Lake, River

Facilities

Long-distance pipelines
or lines

Power plant

Sport and recreation
constructions

Water or Aquatic
infrastructure

Transportation

Highway

Main road

Local road

Track

Railway

Event: On the 09 September 2024 at 06:00 typhoon YAGI passed over central and northern Philippines, Hainan island and Guangdong province, southern China, and the regions of the north of Viet Nam and caused hefty rainfall. Floods and landslides that have resulted in an increased number of casualties. The combined effects of the monsoon and tropical disturbances have caused flooding and flash floods in northern Laos and Thailand. In Viet Nam, the authorities have reported, as of 11 September, 127 fatalities, approximately 54 people still missing, more than 750 injured and over 52 000 evacuated people across northern provinces. Quang Ninh and Hai Phong provinces are the worst affected. Three provinces have declared emergencies: Lao Cai, Tuyen Quang and Yen Bai. Copernicus EMS Rapid Mapping is requested to provide an initial rough estimation and flood extent emergency mapping.

Data sources and analysis:

Pre-event image: PlanetScope © Planet, 2024 (acquired on 05/09/2024 at 03:40 UTC, resolution 3.0 m).

Post-event image: WorldView-2 © Maxar Technologies, Inc. (2024), (acquired on 14/09/2024 at 03:44 UTC, resolution 2.0 m). This image is used as background image.

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

The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by ITHACA released by SERTIT on the 14/09/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR754>



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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area		ha		894.0
Estimated population	Number of inhabitants		~ 3.400	~ 470.000
Built-up	Residential Buildings	ha	0.5	2.591.7
	Industrial buildings	ha	8.3	713.0
	School, university and research buildings	ha	0	45.8
	Hospital or institutional care buildings	ha	0	27.5
	Cemetery	ha	0	28.9
Transportation	Highways	km	1.6	145.3
	Primary Road	km	0.01	71.2
	Secondary Road	km	0	138.6
	Local Road	km	14.6	1.887.6
	Cart Track	km	1.4	424.8
	Long-distance railways	km	0.3	58.3
Facilities	Power plant constructions	ha	2.2	25.0
	Sport and recreation constructions	ha	0.8	160.3
	Other civil engineering works not elsewhere classified	ha	0	8.1
	Long-distance pipelines, communication and electricity lines	km	0.8	83.0
Land use	Heterogeneous agricultural areas	ha	480.6	24.439.6
	Other	ha	203.3	10.274.7
	Inland wetlands	ha	173.3	948.0
	Shrub and/or herbaceous vegetation association	ha	36.1	489.2
	Forests	ha	0.7	4.008.1
	Open spaces with little or no vegetation	ha	0	2.3

Disclaimer:

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

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

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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

**Estimated Population:**

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset.

Additional population datasets and analysis are available in the summary table.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2024), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).

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

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



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