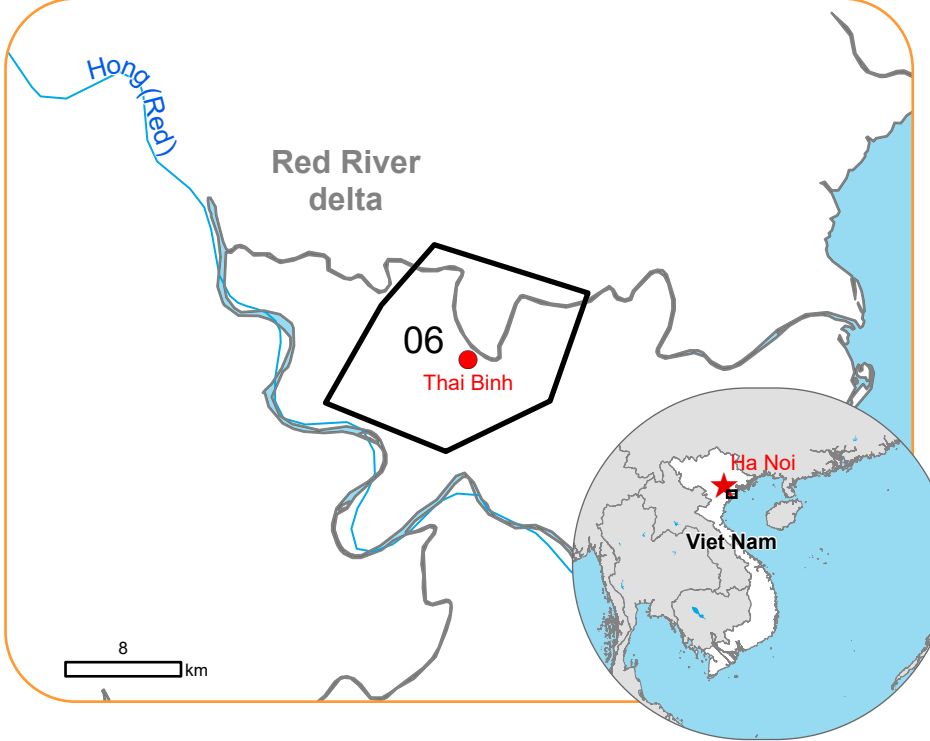




Situation as of 20/09/2024 03:27 UTC
Delineation - Overview map 01



Flooded area 15.7 ha
 Potentially affected population ~ 350

Potentially Affected Built-up and Transportations

Road 0.1 km
 Built-Up 4.5 ha

Estimated flood depth (m)
 Below 0.50
Crisis Information
 Flood trace
General Information
 Area of Interest
 Not Analysed
Administrative Boundaries
 Province
 Municipality
Placenames
 Placename
Built-Up Area
 Residential
 Non residential
Hydrography
 Lake, River
Facilities
 Long-distance pipelines or lines
 Sport and recreation constructions
Transportation
 Highway
 Main road
 Local road
 Track

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 02/09/2024 at 02:50 UTC, resolution 3.0 m).
Post-event image: WorldView-2 © Maxar Technologies, Inc. (2024), (acquired on 20/09/2024 at 03:27 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 using a semi-automatic approach

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 Telespazio Iberica released by e-GEOS on the 20/09/2024.

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



| Consequences within the AOI | | | | |
|-----------------------------|--|---------------------|----------|--------------|
| | | Unit of measurement | Affected | Total in AOI |
| Flood trace | | ha | | 53.5 |
| Flooded area | | ha | | 15.7 |
| Estimated population | Number of inhabitants | | ~ 350 | ~ 310,000 |
| Built-up | Residential Buildings | ha | 0.3 | 3,144.7 |
| | Other non-residential buildings | ha | 4.1 | 599.5 |
| Transportation | Highways | km | 0 | 32.9 |
| | Primary Road | km | 0 | 68.0 |
| | Secondary Road | km | 0 | 39.9 |
| | Local Road | km | 0.1 | 1,054.8 |
| | Cart Track | km | 0 | 62.9 |
| Facilities | Sport and recreation constructions | ha | 0 | 79.4 |
| | Long-distance pipelines, communication and electricity lines | km | 0 | 21.1 |
| Land use | Heterogeneous agricultural areas | ha | 40.0 | 8,700.2 |
| | Other | ha | 25.3 | 7,065.6 |
| | Inland wetlands | ha | 2.6 | 177.3 |
| | Shrub and/or herbaceous vegetation association | ha | 1.4 | 75.0 |
| | Forests | ha | 0 | 18.2 |

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 Digital Elevation Model (DEM) (Airbus,2020).



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