



EMSR838 - AOI08  
Flood in Pakistan  
VANIKE

Situation as of 31/08/2025 00:46UTC  
Delineation - Overview map 01



Flooded area  
13,348.5 ha



Potentially affected  
population  
~ 8600

Potentially Affected Built-up and Transportations



Road  
39.9 km



Built-Up  
59.8 ha

#### Estimated flood depth (m)

- Below 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 4.00
- 4.00 - 6.00

#### General Information

- Area of Interest
- Detail map
- Image Footprint
- Not Analysed

#### Administrative Boundaries

- Province
- Municipality

#### Built-Up Area

- Residential
- Non residential

#### Hydrography

- Lake, River

#### Facilities

- Long-distance pipelines or lines
- Dam
- Sport and recreation constructions
- Water or Aquatic infrastructure

#### Transportation

- Highway
- Main road
- Local road
- Track
- Railway

**Event:** On the 15 August 2025 at 00:00, a flash flood event during the monsoon season was reported to have affected Punjab and Khyber Pakhtunkhwa provinces, Pakistan. The event is on-going and spreading, with damage reported to buildings, infrastructure, and agriculture. Loss of life has already been recorded, with over 300 fatalities. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation and flood extent emergency mapping.

**Data sources and analysis:** Pre-event image: Sentinel-2A/B (2025) (acquired on 28/06/2025 at 05:48 UTC, resolution 10.0 m). Post-event image: COSMO-SkyMed © ASI (2025), distributed by e-GEOS S.p.A. (acquired on 31/08/2025 at 00:46 UTC, resolution 3.0 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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 31/08/2025.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR838>



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Delineation - Detail map 02



**Estimated flood depth (m)**

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- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 4.00
- 4.00 - 6.00

**General Information**

- Area of Interest

**Administrative Boundaries**

- Municipality

**Built-Up Area**

- Residential
- Non residential

**Hydrography**

- Lake, River

**Facilities**

- Long-distance pipelines or lines
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**Transportation**

- Highway
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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area		ha		13,348.5
Estimated population		Number of inhabitants	~ 8,600	1.000 Mio.
Built-up	Residential Buildings	ha	59.8	6,292.2
	Office buildings	ha	0	3.3
	Industrial buildings	ha	0	6.2
	Other non-residential buildings	ha	0	50.2
	Cemetery	ha	0	53.8
Transportation	Highways	km	1.8	163.2
	Primary Road	km	0.2	152.3
	Secondary Road	km	0.9	138.4
	Local Road	km	21.4	1,007.8
	Cart Track	km	15.7	1,117.2
	Long-distance railways	km	0	28.4
Facilities	Sport and recreation constructions	ha	0	3.5
	Other civil engineering works not elsewhere classified	ha	0	21.0
	Long-distance pipelines, communication and electricity lines	km	1.1	98.1
	Dams	km	0	1.0
Land use	Heterogeneous agricultural areas	ha	10,673.1	205,579.9
	Open spaces with little or no vegetation	ha	1,172.8	7,830.6
	Shrub and/or herbaceous vegetation association	ha	687.0	6,456.3
	Inland wetlands	ha	406.2	3,718.9
	Other	ha	297.7	7,229.9
	Forests	ha	111.6	9,331.9

**Disclaimer:**

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

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-manual/>

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**Data Access:**

All data displayed on the map(s), as well as Land Use - Land Cover layer(s), 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 (2025); Wikimapia.org; GeoNames 2015;

Global Administrative Areas (2022), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).

Inset Maps: Natural Earth 2023; HydroLAKES 2016 by HydroSHEDS;

© EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2021.

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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