

Situation as of 01/09/2025 13:12 UTC
Delineation MONIT03 - Overview map 01



Flooded area
20,980.8 ha

Potentially affected
population
~ 29000

Potentially Affected Built-up and Transportations

Built-Up
17.3 ha

Road
19.2 km

Estimated flood depth (m)	Hydrography
Below 0.50	Lake, River
0.50 - 1.00	Facilities
1.00 - 2.00	Long-distance pipelines or lines
2.00 - 4.00	Dam
4.00 - 6.00	Power plant
Crisis Information	Sport and recreation constructions
Maximum Flood Extent	Transportation
General Information	Highway
Area of Interest	Main road
Placenames	Local road
Placename	Track
Built-Up Area	
Residential	
Non residential	
School, university and research buildings	

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.

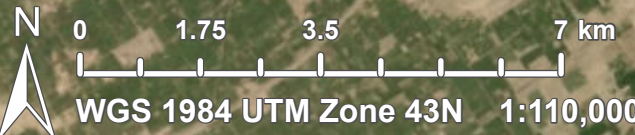
Data sources and analysis: Pre-event image: Sentinel-2 (2025) (acquired on 13/06/2025 at 05:47 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: Sentinel-1 (2025) (acquired on 01/09/2025 at 13:12 UTC, resolution 10.0 m).
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The 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 maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

Map produced by e-GEOS released by e-GEOS on the 02/09/2025.

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



Consequences within the AOI				
	Unit of measurement	Affected	Total in AOI	
Flooded area*	ha		20 980.8	
Maximum flood extent**	ha		27 958.7	
Estimated population	Number of inhabitants	~ 29 000	~ 480 000	
Built-up	Residential Buildings	ha	17.3	1 180.1
	Industrial buildings	ha	0	110.6
	School, university and research buildings	ha	0	0.01
Transportation	Highways	km	1.7	41.2
	Primary Road	km	0.7	57.6
	Secondary Road	km	3.2	50.0
	Local Road	km	8.5	276.6
	Cart Track	km	5.1	147.9
Facilities	Power plant constructions	ha	0	114.1
	Sport and recreation constructions	ha	0	25.2
	Long-distance pipelines, communication and electricity lines	km	2.0	73.3
	Dams	km	0	1.2
Land use	Heterogeneous agricultural areas	ha	16 756.3	84 471.0
	Shrub and/or herbaceous vegetation association	ha	1 484.7	3 132.0
	Open spaces with little or no vegetation	ha	1 077.0	2 832.3
	Other	ha	788.2	4 544.4
	Forests	ha	693.8	5 826.4
	Inland wetlands	ha	180.8	570.4

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water

** Corresponds to the water observed in all previous products and in all crisis imagery, excluding permanent water (cumulative analysis).

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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