

EMSR838 - AOI05
Flood in Pakistan
TRIMMU

Situation as of 02/09/2025 01:16 UTC
Delineation MONIT04 - Overview map 01



Flooded area
21,977.1 ha



Potentially affected
population
~ 35000

Potentially Affected Built-up and Transportations



Built-Up

16.4 ha



Road

32.4 km

Estimated flood depth (m)

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

Hydrography

Lake, River

Facilities

- Long-distance pipelines or lines
- Dam
- Power plant
- Sport and recreation constructions

Crisis Information

Maximum Flood Extent

General Information

Area of Interest

Placenames

Placename

Built-Up Area

- Residential
- Non residential
- School, university and research buildings

Transportation

- Highway
- Main road
- Local road
- Track

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 02/09/2025 at 01:16 UTC, resolution 20.0 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.

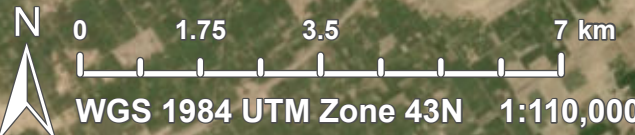
The flood depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum flood extent corresponds to the flood observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite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

Map produced by IABG 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>



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Consequences within the AOI				
	Unit of measurement	Affected	Total in AOI	
Flooded area*	ha		21,977.1	
Maximum flood extent**	ha		31,526.7	
Estimated population	Number of inhabitants	~ 35,000	~ 480,000	
Built-up	Residential Buildings	ha	16.4	1,180.1
	Industrial buildings	ha	0	110.6
	School, university and research buildings	ha	0	0.01
Transportation	Highways	km	1.5	41.2
	Primary Road	km	1.0	57.6
	Secondary Road	km	8.0	50.0
	Local Road	km	13.2	276.6
Facilities	Cart Track	km	8.8	147.9
	Power plant constructions	ha	0	114.1
	Sport and recreation constructions	ha	0	25.2
	Long-distance pipelines, communication and electricity lines	km	2.1	73.3
Land use	Dams	km	0	1.2
	Heterogeneous agricultural areas	ha	18,155.5	84,471.0
	Shrub and/or herbaceous vegetation association	ha	1,340.6	3,132.0
	Open spaces with little or no vegetation	ha	955.2	2,832.3
	Other	ha	696.5	4,544.4
	Forests	ha	657.7	5,826.4
	Inland wetlands	ha	171.6	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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