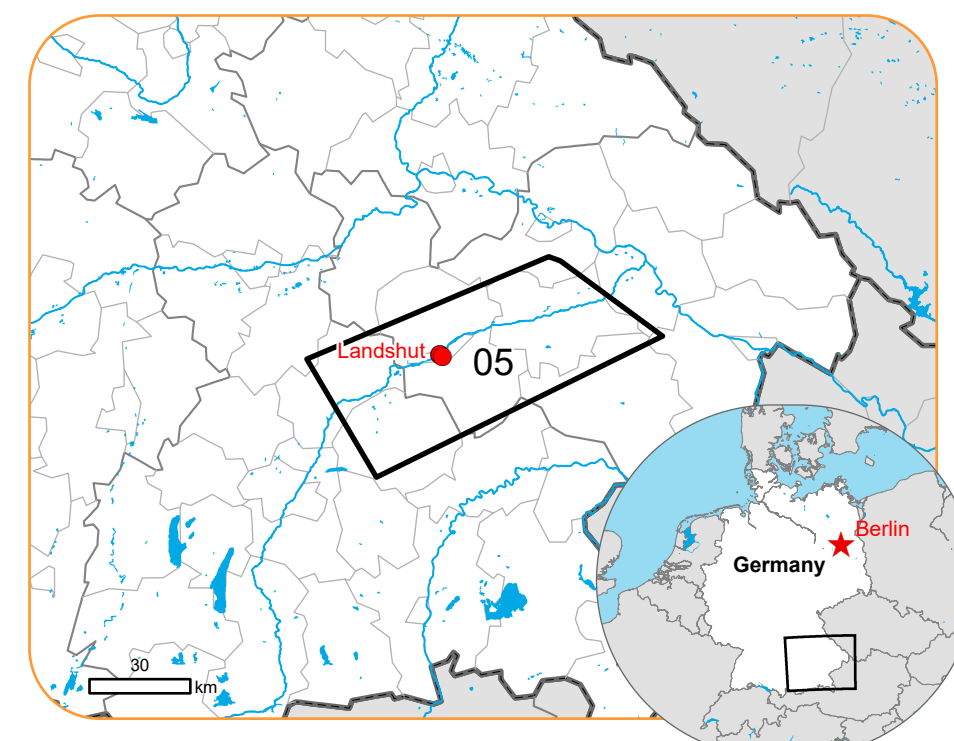


EMSR728 - AOI05
Flood in Germany
LANDSHUT

Situation as of 03/06/2024 05:09 UTC
Delineation MONIT01 - Overview map 01





Flooded area
444.8 ha



Potentially affected population
~ 1200

Potentially Affected Built-up and Transportations



Built-Up
69.0 ha



Road
1.0 km



Railway
0.2 km

Estimated water depth (m)

0.15 - 0.50

0.50 - 1.00

1.00 - 2.00

2.00 - 4.00

Stream

Waterfall

Lake

Reservoir

River

Crisis information

Maximum Water Extent

Area of Interest

Detail map

Image Footprint

Not Analysed

Province

Municipality

Administrative Boundaries

Province

Municipality

Placename

Placenames

Placename

Built-Up Area

Residential

Non residential

School, university and research buildings

Hospital or institutional care buildings

Military

Hydrography

River

Facilities

Long-distance pipelines or lines

Local pipelines or lines

Dam

Mining or extraction site

Water Well

Power plant

Sport and recreation constructions

Dump Site

Water or Aquatic infrastructure

Dam

Transportation

Highway

Main road

Railway

Airfield

Helipad

Water or Aquatic infrastructure

Event: Starting in the early morning of 31st May 2024, continuous rain (about 50 to 150 l/m² in 48 hours) is expected in wide areas of Southern and Eastern Germany (potentially affected states: Bavaria, Baden-Wuerttemberg, Hesse, Saxony, Saxony-Anhalt, Thuringia). Although uncertainties of the forecast still have to be considered, competent authorities expect flooding of different severities in wide areas. Following formal flash flood EFAS notifications, Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and damage assessment emergency mapping for some potentially affected regions.


Data sources and analysis: Pre-event image: Sentinel-2A (2024) (acquired on 27/04/2024 at 10:06 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: PAZ satellite image © Hisdesat Servicios Estratégicos S.A. 2024 (acquired on 03/06/2024 at 05:09 UTC, resolution 18.5 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 water extent and water depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum water extent corresponds to the water 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 03/06/2024.

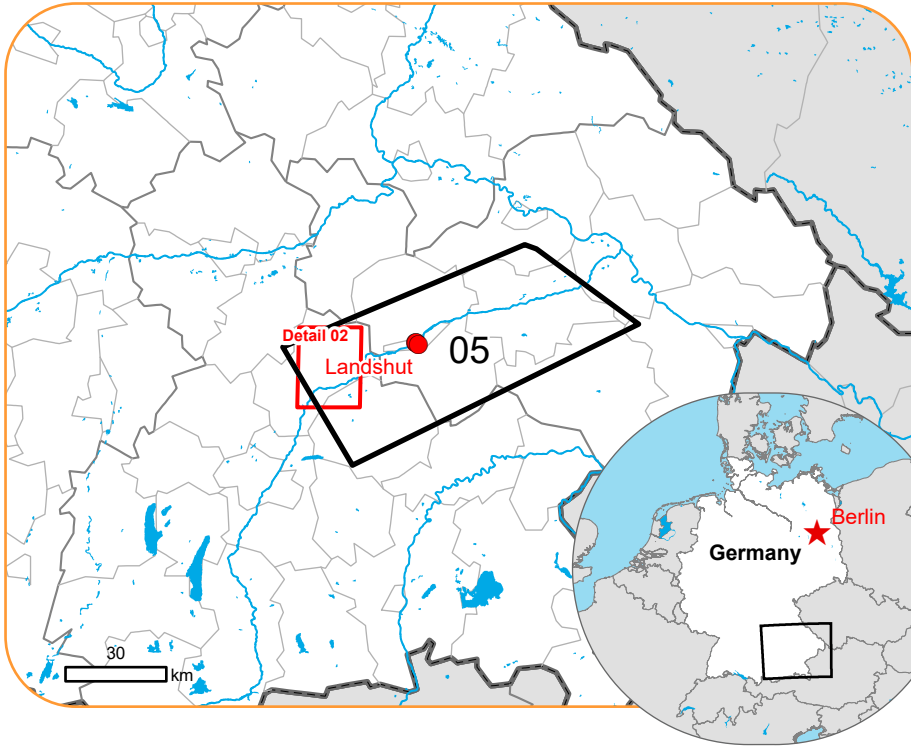
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>





EMSR728 - AOI05
Flood in Germany
LANDSHUT

Situation as of 03/06/2024 05:09 UTC
Delineation MONIT01 - Detail map 02



Estimated water depth (m)	Hydrography
0.15 - 0.50	River
0.50 - 1.00	Stream
1.00 - 2.00	Lake
2.00 - 4.00	River
Crisis information	Facilities
Maximum Water Extent	Long-distance pipelines or lines
Area of Interest	Local pipelines or lines
Image Footprint	Dam
Not Analysed	Mining or extraction site
Administrative Boundaries	Power plant
Province	Sport and recreation constructions
Municipality	Dump Site
Placenames	Water or Aquatic infrastructure
Placename	Dam
Built-Up Area	Transportation
Residential	Highway
Non residential	Main road
School, university and research buildings	Railway
Hospital or institutional care buildings	Airfield
Military	Helipad

Event: Starting in the early morning of 31st May 2024, continuous rain (about 50 to 150 l/m² in 48 hours) is expected in wide areas of Southern and Eastern Germany (potentially affected states: Bavaria, Baden-Wuerttemberg, Hesse, Saxony, Saxony-Anhalt, Thuringia). Although uncertainties of the forecast still have to be considered, competent authorities expect flooding of different severities in wide areas. Following formal flash flood EFAS notifications, Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and damage assessment emergency mapping for some potentially affected regions.

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Map produced by IABG released by e-GEOS on the 03/06/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>

Consequences within the AOI			
	Unit of measurement	Affected	Total in AOI
Flooded area*	ha		444.8
Water Extent**	ha		3,143.1
Maximum Water Extent***	ha		3,373.1
Permanent Water	ha		2,698.4
Estimated population	Number of inhabitants	~ 1,200	~ 600,000
Built-up	Residential Buildings	ha	48.2
	Office buildings	ha	2.4
	Wholesale and retail trade buildings	ha	0
	Industrial buildings	ha	16.3
	Museums and libraries	ha	0
	School, university and research buildings	ha	0
	Sports halls	ha	2.0
	Hospital or institutional care buildings	ha	0
	Military	ha	0
	Cemetery	ha	0
Transportation	Airfield runways	ha	0
	Navigable canals	ha	0
	Helipad	ha	0
	Highways	km	0.5
	Primary Road	km	0.6
Facilities	Long-distance railways	km	0.2
	Settling Basin	ha	2.1
	Dams	ha	0.02
	Constructions for mining or extraction	ha	196.1
	Power plant constructions	ha	3.0
	Sport and recreation constructions	ha	20.3
	Other civil engineering works not elsewhere classified	ha	19.4
	Long-distance pipelines, communication and electricity lines	km	9.6
	Local pipelines and cables	km	4.5
	Dams	km	1.6
Land use	Other	ha	1,509.9
	Pastures	ha	572.4
	Arable land	ha	548.8
	Forests	ha	438.6
	Heterogeneous agricultural areas	ha	58.4
	Open spaces with little or no vegetation	ha	12.0
	Inland wetlands	ha	2.1
	Shrub and/or herbaceous vegetation association	ha	0.8
	Permanent crops	ha	0

* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water
** Corresponds to the water observed in the most recent satellite imagery, including permanent water
*** Corresponds to the water observed in all previous products and in the most recent satellite imagery (cumulative analysis)

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.

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, Corine Land Cover (CLC) 2018, EuroBoundaryMap 2017 ©EuroGeographics.
Inset maps: JRC 2013, GISCO 2010 © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2015.
Digital Elevation Model: Digital Terrain Model (5m) © GeoBasis-DE / BKG (2024)

