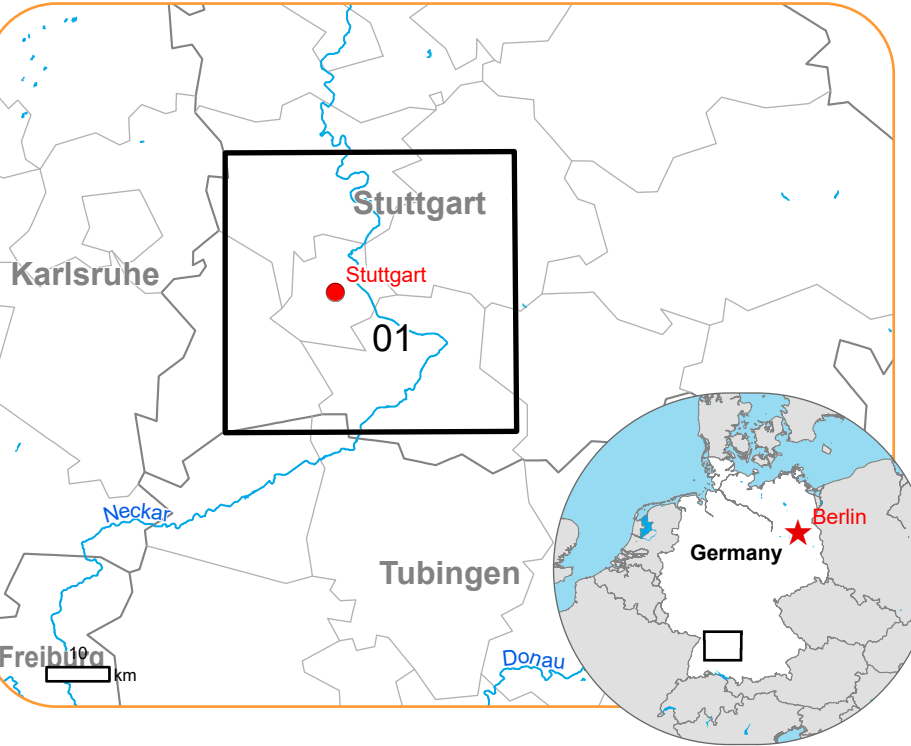


Situation as of 02/06/2024 05:12 UTC
Delineation MONIT01 - Overview map 01



Flooded area 134.1 ha
Potentially affected population ~ 7500

Potentially Affected Built-up and Transportations

Water infrastructure 51.1 ha
2.9 km
Road 1.4 km
Airport 1.8 ha
Built-Up 15.9 ha

Estimated water depth (m)
0.15 - 0.50
General Information
Area of Interest
Detail map
Image Footprint
Not Analysed
Administrative Boundaries
Province
Municipality
Placenames
Placename
Built-Up Area
Residential
Hydrography
River
Stream
Lake
Natural Spring
Reservoir
Facilities
Long-distance pipelines or lines
Local pipelines or lines
Water or Aquatic infrastructure
Dam
Power plant
Sport and recreation constructions
Water or Aquatic infrastructure
Transportation
Highway
Main road
Railway
Transportation
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-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/B (2024) (acquired on 25/06/2024 at 10:16 UTC, resolution 10 m). This image is used as background image.

Post-event image: COSMO-SkyMed SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 02/06/2024 at 05:12 UTC, resolution 5 m). All images are provided under COPENICUS 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.

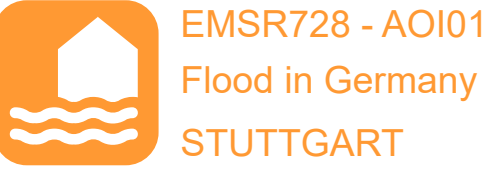
The water extent and water depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum water extent corresponds to the water observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the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

Water depth values are not calculated outside the observed event areas.

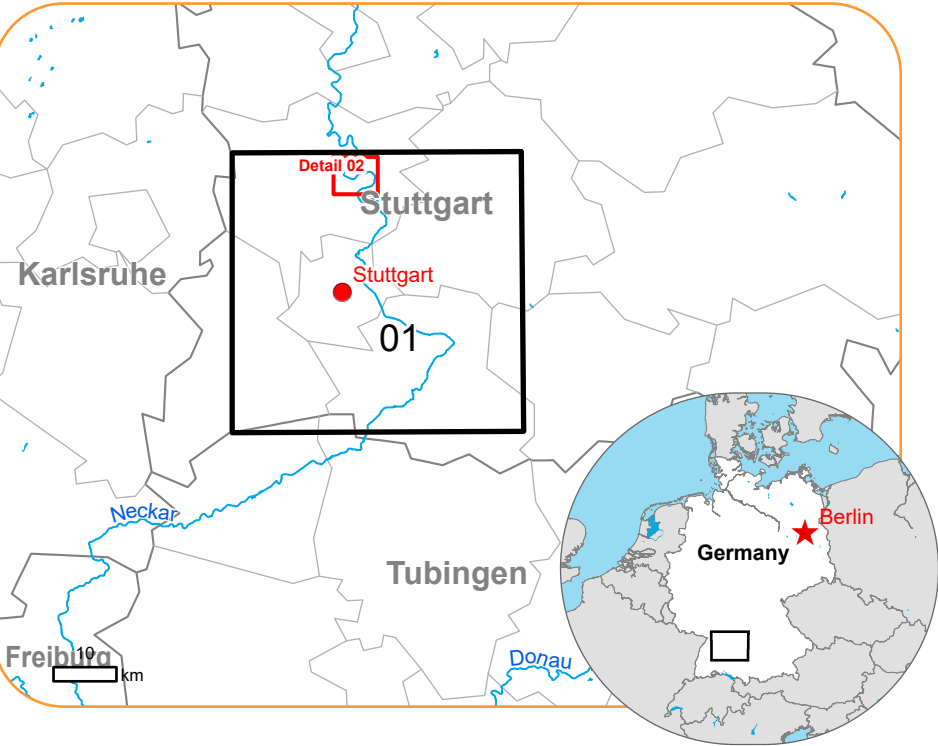
Map produced by ITHACA released by e-GEOS on the 03/06/2024.

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





Situation as of 02/06/2024 05:12 UTC
Delineation MONIT01 - Detail map 02



- Estimated water depth (m)**
- 0.15 - 0.50
- General Information**
- Inset map
- Administrative Boundaries**
- Municipality
- Built-Up Area**
- Residential
- Hydrography**
- Stream
 - Lake
 - Reservoir
 - River
- Facilities**
- Long-distance pipelines or lines
- Local pipelines or lines**
- Dam
 - Power plant
 - Sport and recreation constructions
 - Water or Aquatic infrastructure
- Transportation**
- Highway
 - Main road
 - Railway
- Transportation**
- Airfield
 - 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-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 ITHACA released by e-GEOS on the 03/06/2024.

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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		134,1
Water Extent**		ha		1.249,9
Maximum Water Extent***		ha		1.250,9
Permanent Water		ha		1.115,9
Estimated population	Number of inhabitants		~ 7.500	2.200 Mio.
Built-up	Residential Buildings	ha	15,9	40.306,5
Transportation	Airfield runways	ha	1,8	500,8
	Navigable canals	ha	0,9	2,0
	Helipad	ha	0	0,9
	Highways	km	0,7	655,0
	Primary Road	km	0,7	1.173,7
	Long-distance railways	km	2,5	1.711,0
Facilities	Settling Basin	ha	51,1	316,9
	Power plant constructions	ha	1,7	369,4
	Sport and recreation constructions	ha	51,1	2.542,8
	Settling Basin	km	0	2,1
	Long-distance pipelines, communication and electricity lines	km	5,7	988,3
	Local pipelines and cables	km	2,5	464,4
	Dams	km	2,9	6,1
Land use	Other	ha	563,4	49.750,9
	Pastures	ha	252,8	14.846,5
	Forests	ha	172,4	57.710,3
	Arable land	ha	126,5	55.893,4
	Permanent crops	ha	70,1	24.336,6
	Shrub and/or herbaceous vegetation association	ha	38,9	690,9
	Heterogeneous agricultural areas	ha	25,8	1.481,3

* 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 10 m, GeoBasis-DE/BKG (2024).

