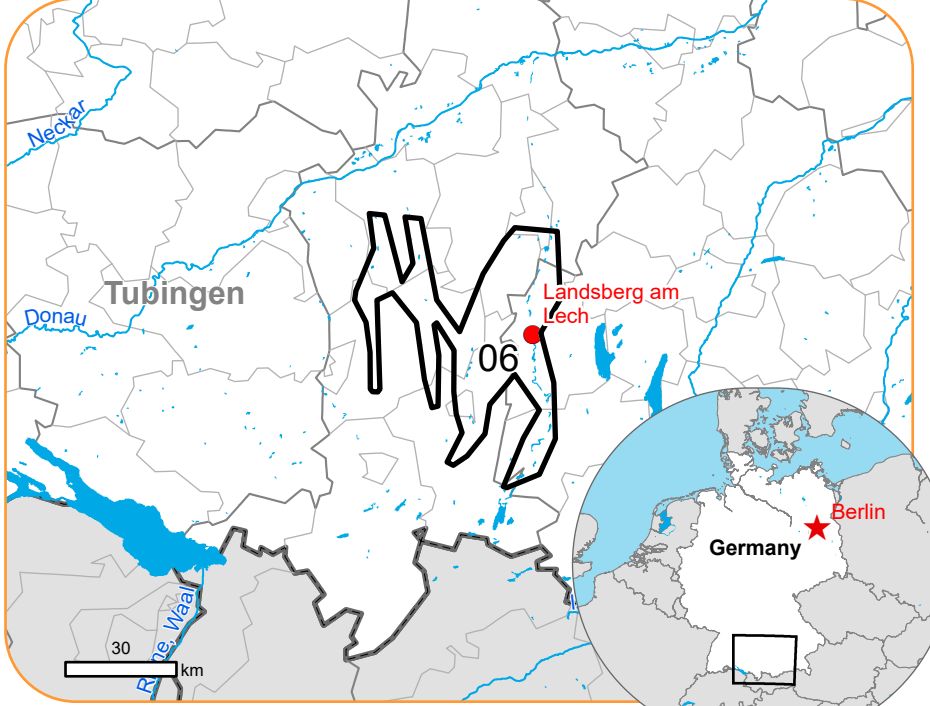




EMSR728 - AOI06
Flood in Germany
LANDSBERG AM LECH

Situation as of 02/06/2024 05:21 UTC
Delineation - Overview map 01



Observed Event
2,882.2 ha



Potentially affected
population
~ 1,900

Potentially Affected Built-up and Transportations



Built-up
19.3 ha



Road
4.8 km



Railway
0.4 km

Estimated water depth (m)

- 0.15 - 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

Placenames

- Placename

Built-Up Area

- Residential
- Non residential
- School, university and research buildings
- Hospital or institutional care buildings
- Military

Hydrography

- River
- Stream
- Lake
- Reservoir
- River

Facilities

- Long-distance pipelines or lines
- Local pipelines or lines
- Dam
- Mining or extraction site
- Oil Gas Well
- Water Well
- Power plant
- Sport and recreation constructions
- Dump Site
- Water or Aquatic infrastructure
- Dam
- Transportation
- Highway
- Main road
- Railway
- Tramway
- Airfield runway
- Transportation
- Airfield
- Helipad
- Harbour

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/B (2024) (acquired on 20/05/2024 at 10:20 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: RADARSAT 2 Data and products © MacDonald, Dettwiler and Associates Ltd. (2024) (acquired on 02/06/2024 at 05:21 UTC, resolution 3.0 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 water extent and water 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.

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

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

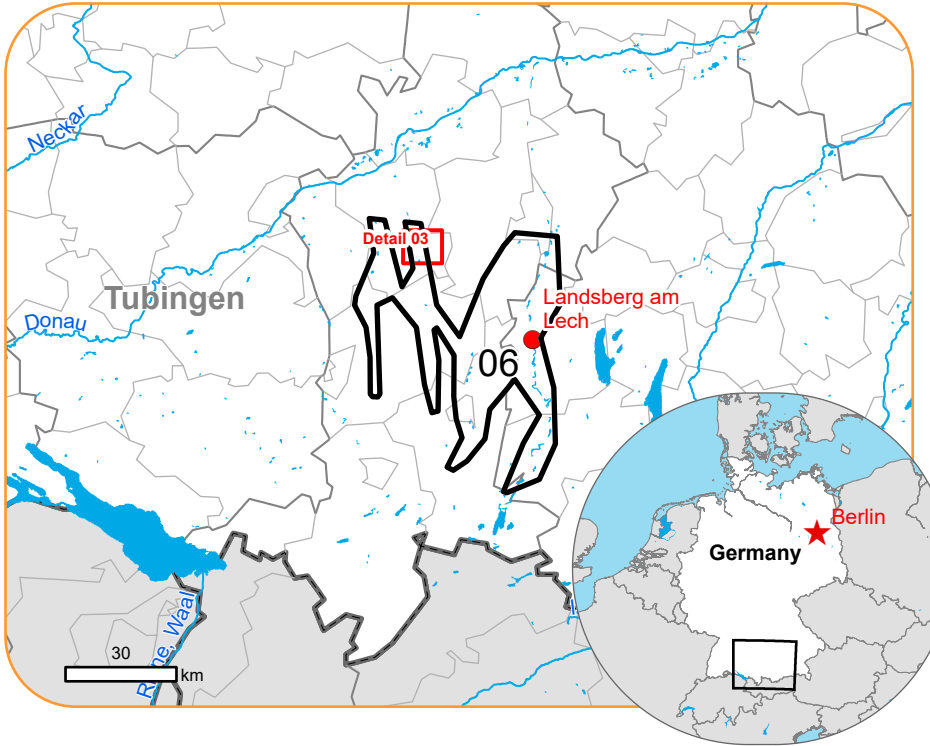
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>





EMSR728 - AOI06
Flood in Germany
LANDSBERG AM LECH

Situation as of 02/06/2024 05:21 UTC
Delineation - Detail map 02



- Estimated water depth (m)**

 - 0.15 - 0.50
 - 0.50 - 1.00
 - 1.00 - 2.00
 - 2.00 - 4.00

General Information

 - Area of Interest
 - Image Footprint

Administrative Boundaries

 - Municipality

Placenames

 - Placename

Built-Up Area

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

Hydrography

 - River
 - Stream
 - Lake
 - 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

Transportation

 - Main road
 - Railway
 - 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.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2024) (acquired on 20/05/2024 at 10:20 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: RADARSAT 2 Data and products © MacDonald, Dettwiler and Associates Ltd. (2024) (acquired on 02/06/2024 at 05:21 UTC, resolution 3.0 m).
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

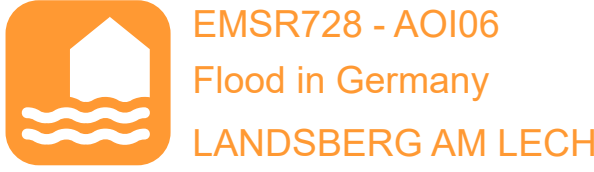
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The water extent and water 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.

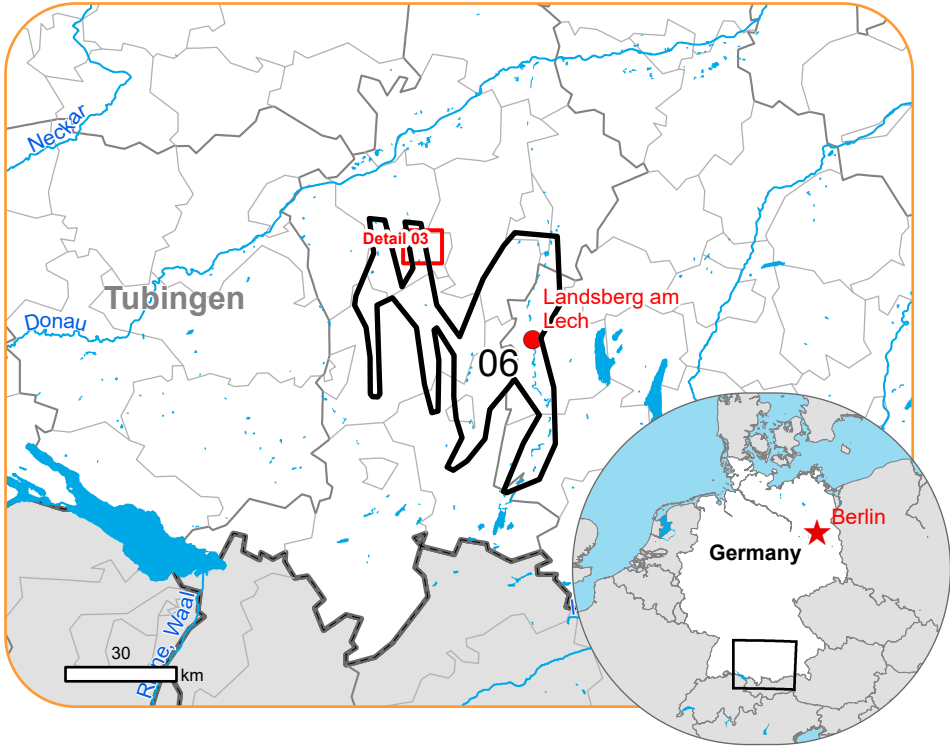
Water depth values are not calculated outside the observed event areas.

Map produced by e-GEOS 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 05:21 UTC
Delineation - Detail map 03



- Estimated water depth (m)**

 - 0.15 - 0.50
 - 0.50 - 1.00
 - 1.00 - 2.00
 - 2.00 - 4.00

General Information

 - Area of Interest
 - Image Footprint

Placenames

 - Placename

Built-Up Area

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

Hydrography

 - River
 - Stream
 - Lake
- Facilities**

 - Long-distance pipelines or lines
 - Local pipelines or lines
 - Water Well
 - Power plant
 - Sport and recreation constructions

Transportation

 - Main road
 - Railway
 - Airfield runway
 - Airfield

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/B (2024) (acquired on 20/05/2024 at 10:20 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: RADARSAT 2 Data and products © MacDonald, Dettwiler and Associates Ltd. (2024) (acquired on 02/06/2024 at 05:21 UTC, resolution 3.0 m).
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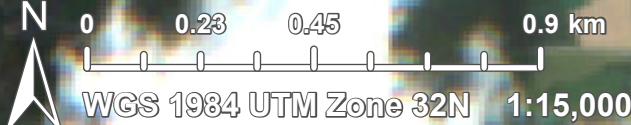
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The water extent and water 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.

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

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

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Consequences within the AOI			
		Unit of measurement	
Flooded area*		ha	2,882.2
Water Extent**		ha	6,215.4
Permanent Water		ha	3,333.3
Estimated population	Number of inhabitants	~ 1,900	~ 410,000
Built-up	Residential Buildings	ha	8.3
	Office buildings	ha	2.6
	Wholesale and retail trade buildings	ha	0.1
	Industrial buildings	ha	8.3
	School, university and research buildings	ha	0
	Hospital or institutional care buildings	ha	0
	Military	ha	0
	Cemetery	ha	0
Transportation	Airfield runways	ha	3.2
	Helipad	ha	0
	Harbours	ha	0
	Airfield runways	km	0
	Highways	km	0.3
	Primary Road	km	0.9
	Secondary Road	km	0.5
	Local Road	km	1.5
	Cart Track	km	1.6
	Tramway	km	0
	Harbours	km	0.03
Facilities	Long-distance railways	km	0.4
	Settling Basin	ha	6.6
	Dams	ha	0.2
	Constructions for mining or extraction	ha	67.7
	Power plant constructions	ha	1.7
	Sport and recreation constructions	ha	6.4
	Other civil engineering works not elsewhere classified	ha	0.8
	Long-distance pipelines, communication and electricity lines	km	12.3
	Local pipelines and cables	km	34.9
	Dams	km	3.1
Land use	Other	ha	2,282.7
	Pastures	ha	2,186.5
	Arable land	ha	1,208.5
	Forests	ha	345.4
	Heterogeneous agricultural areas	ha	172.8
	Shrub and/or herbaceous vegetation association	ha	19.5
	Inland wetlands	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

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)

Access to the portal

