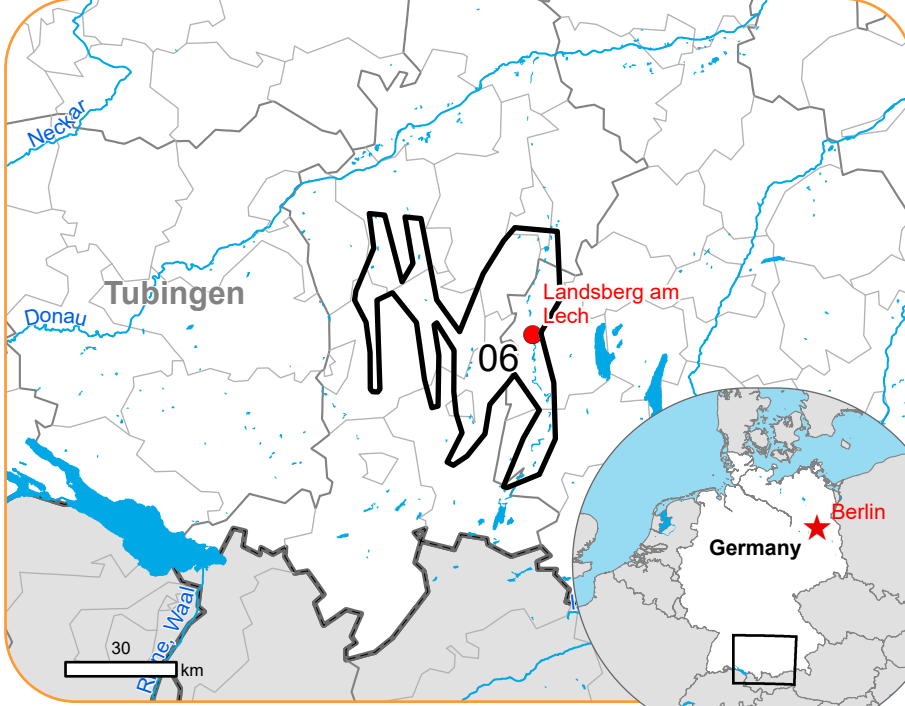




EMSR728 - AOI06
Flood in Germany
LANDSBERG AM LECH

Situation as of 03/06/2024 04:53 UTC
Delineation MONIT01 - Overview map 01



Flooded area 551.1 ha



Potentially affected population ~ 950

Potentially Affected Built-up and Transportations



Built-Up 5.8 ha



Road 19.5 km



Railway 0.3 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: COSMO-SkyMed © ASI (2024), (acquired on 03/06/2024 at 04:53 UTC, resolution 2.5 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>




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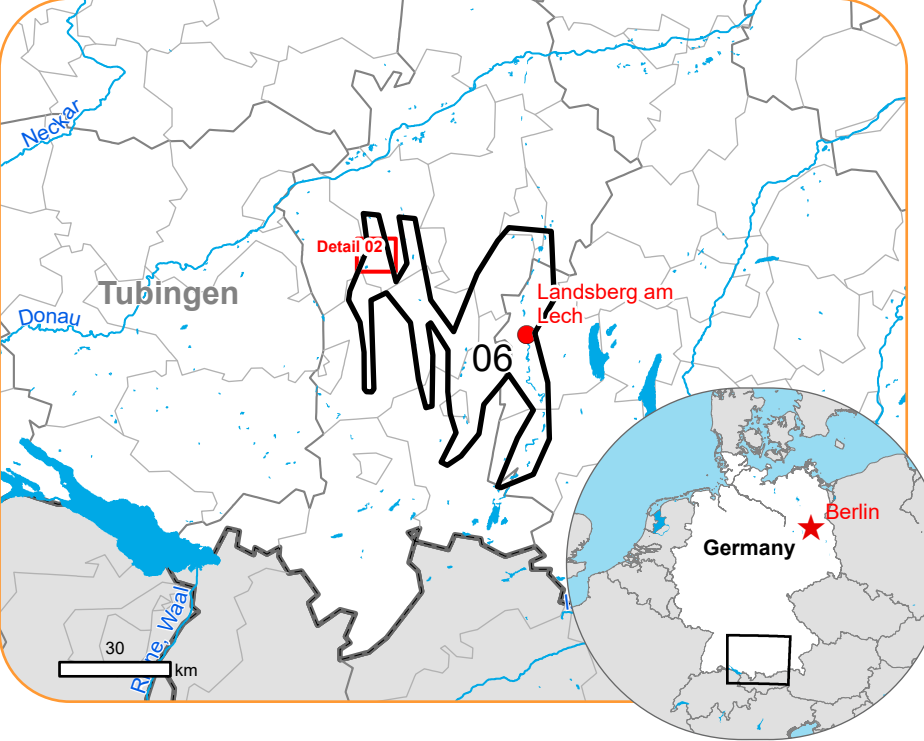
EMSR728 - AOI06

Flood in Germany

LANDSBERG AM LECH

Situation as of 03/06/2024 04:53 UTC

Delineation MONIT01 - 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

Transportation

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: COSMO-SkyMed © ASI (2024), (acquired on 03/06/2024 at 04:53 UTC, resolution 2.5 m).
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

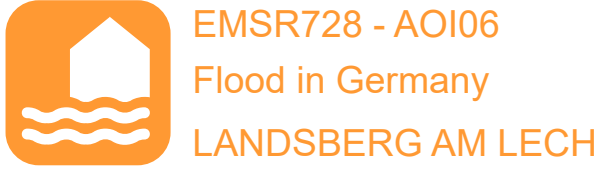
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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.

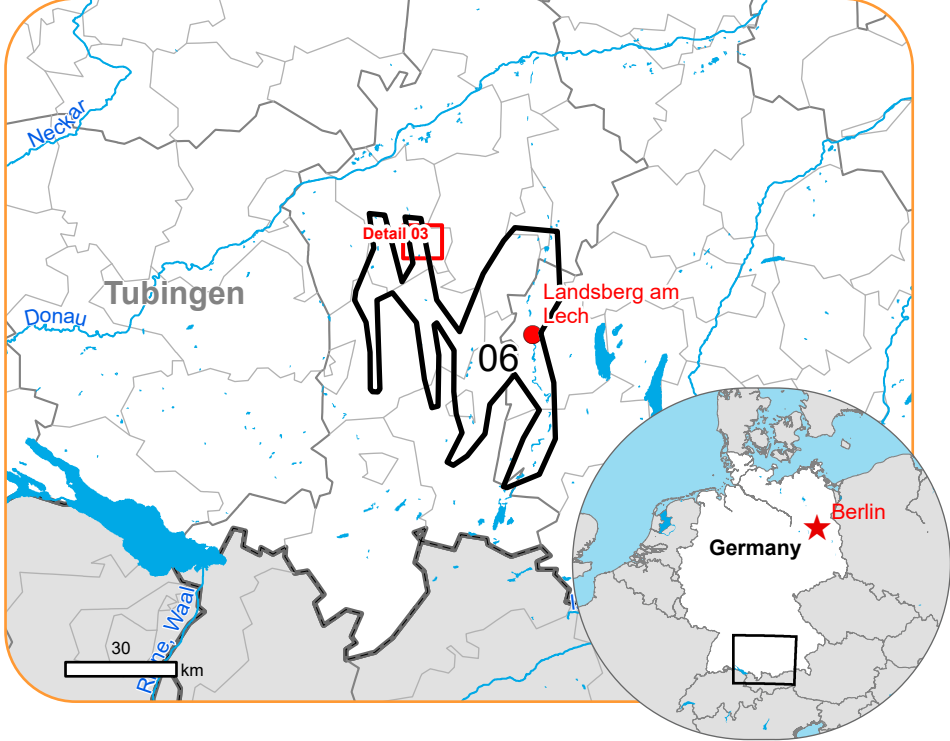
Water depth values are not calculated outside the observed event areas.

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 03/06/2024 04:53 UTC
Delineation MONIT01 - Detail map 03



Estimated water depth (m)

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

General Information

- Area of Interest
- Image Footprint
- Not Analysed

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

Transportation

- 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.
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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.

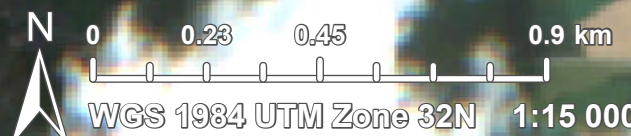
Water depth values are not calculated outside the observed event areas.

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>



PROGRAMME OF THE
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| Consequences within the AOI | | | | |
|-----------------------------|--|---------------------|----------|--------------|
| | | Unit of measurement | Affected | Total in AOI |
| Flooded area* | | ha | | 551.1 |
| Water Extent** | | ha | | 2 236.9 |
| Maximum Water Extent*** | | ha | | 6 386.8 |
| Permanent Water | | ha | | 1 685.8 |
| Estimated population | Number of inhabitants | | ~ 950 | ~ 410 000 |
| Built-up | Residential Buildings | ha | 2.9 | 3 286.6 |
| | Office buildings | ha | 0.3 | 714.6 |
| | Wholesale and retail trade buildings | ha | 0.1 | 28.6 |
| | Industrial buildings | ha | 2.5 | 986.3 |
| | School, university and research buildings | ha | 0 | 60.6 |
| | Hospital or institutional care buildings | ha | 0 | 9.4 |
| | Military | ha | 0 | 736.7 |
| | Cemetery | ha | 0 | 29.2 |
| | | | | |
| Transportation | Airfield runways | ha | 0 | 568.3 |
| | Helipad | ha | 0 | 0.5 |
| | Harbours | ha | 0 | 0.1 |
| | Airfield runways | km | 0 | 23.6 |
| | Highways | km | 0.1 | 177.4 |
| | Primary Road | km | 1.9 | 729.1 |
| | Secondary Road | km | 0.5 | 353.7 |
| | Local Road | km | 1.9 | 4 581.8 |
| | Cart Track | km | 15.1 | 7 827.8 |
| | Tramway | km | 0 | 9.0 |
| | Harbours | km | 0 | 0.2 |
| | Long-distance railways | km | 0.3 | 412.8 |
| | | | | |
| Facilities | Settling Basin | ha | 3.3 | 65.4 |
| | Dams | ha | 0.1 | 1.0 |
| | Constructions for mining or extraction | ha | 54.5 | 876.1 |
| | Power plant constructions | ha | 0.4 | 234.9 |
| | Sport and recreation constructions | ha | 3.3 | 911.0 |
| | Other civil engineering works not elsewhere classified | ha | 0.8 | 46.2 |
| | Long-distance pipelines, communication and electricity lines | km | 5.1 | 387.9 |
| | Local pipelines and cables | km | 6.0 | 572.3 |
| | Dams | km | 1.3 | 3.7 |
| Land use | Other | ha | 938.8 | 22 423.5 |
| | Pastures | ha | 597.7 | 67 812.0 |
| | Arable land | ha | 461.1 | 60 084.6 |
| | Forests | ha | 191.5 | 28 193.0 |
| | Heterogeneous agricultural areas | ha | 42.4 | 1 247.2 |
| | Shrub and/or herbaceous vegetation association | ha | 5.4 | 2 263.9 |
| | Inland wetlands | ha | 0 | 3.9 |
| | | | | |

* 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)

Access to the portal

