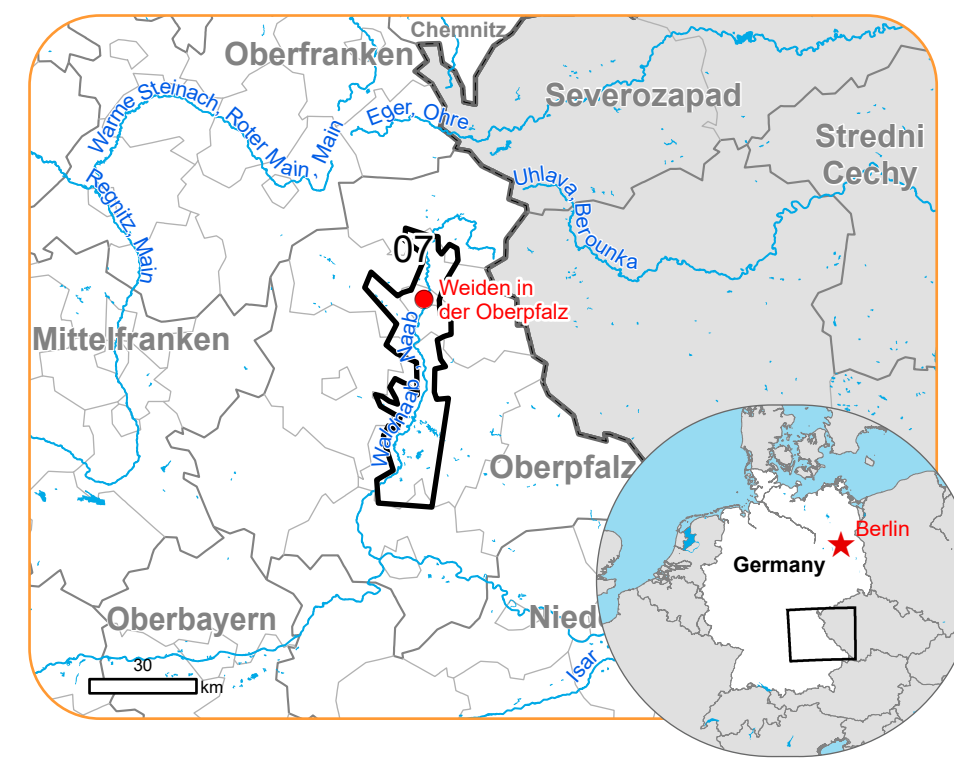


EMSR728 - AOI07
Flood in Germany
Weiden in der Oberpfalz

Situation as of 05/06/2024 16:59 UTC
Delineation MONIT02 - Overview map 01



Observed Event
89.4 ha

Potentially affected population
~ 1000

Potentially Affected Built-up and Transportations

Built-up
0.8 ha

Road
1.6 km

Railway
2.4 km

- Estimated water depth (m)**
- 0.15 - 0.50
 - 0.50 - 1.00
 - 1.00 - 2.00
- Crisis information**
- Maximum Water Extent
- General Information**
- Area of Interest
 - Detail map
 - Image Footprint
- Administrative Boundaries**
- Municipality
- Built-Up Area**
- Residential
 - Non residential
 - School, university and research buildings
 - Hospital or institutional care buildings
 - Military
- Hydrography**
- River
 - Stream
 - Lake
- Reservoir**
- Reservoir
- River**
- River
- Facilities**
- Long-distance pipelines or lines
 - Local pipelines or
 - Water or Aquatic infrastructure
 - Dam
 - Mining or extraction
 - Water Well
 - Power plant
 - Sport and recreation constructions
 - Dump Site
 - Water or Aquatic infrastructure
- Transportation**
- Highway
 - Main road
 - Railway
 - Airfield runway
 - Airfield
 - 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 30/04/2024 at 10:20 UTC, resolution 10.0 m). This image is used as background image. Post-event image: Sentinel-1A/B (2024) (acquired on 05/06/2024 16:59 UTC, resolution 20.0 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

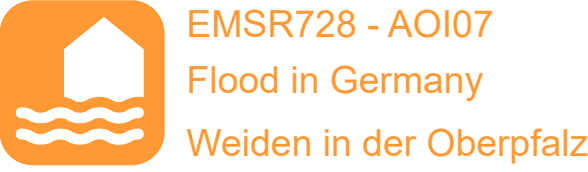
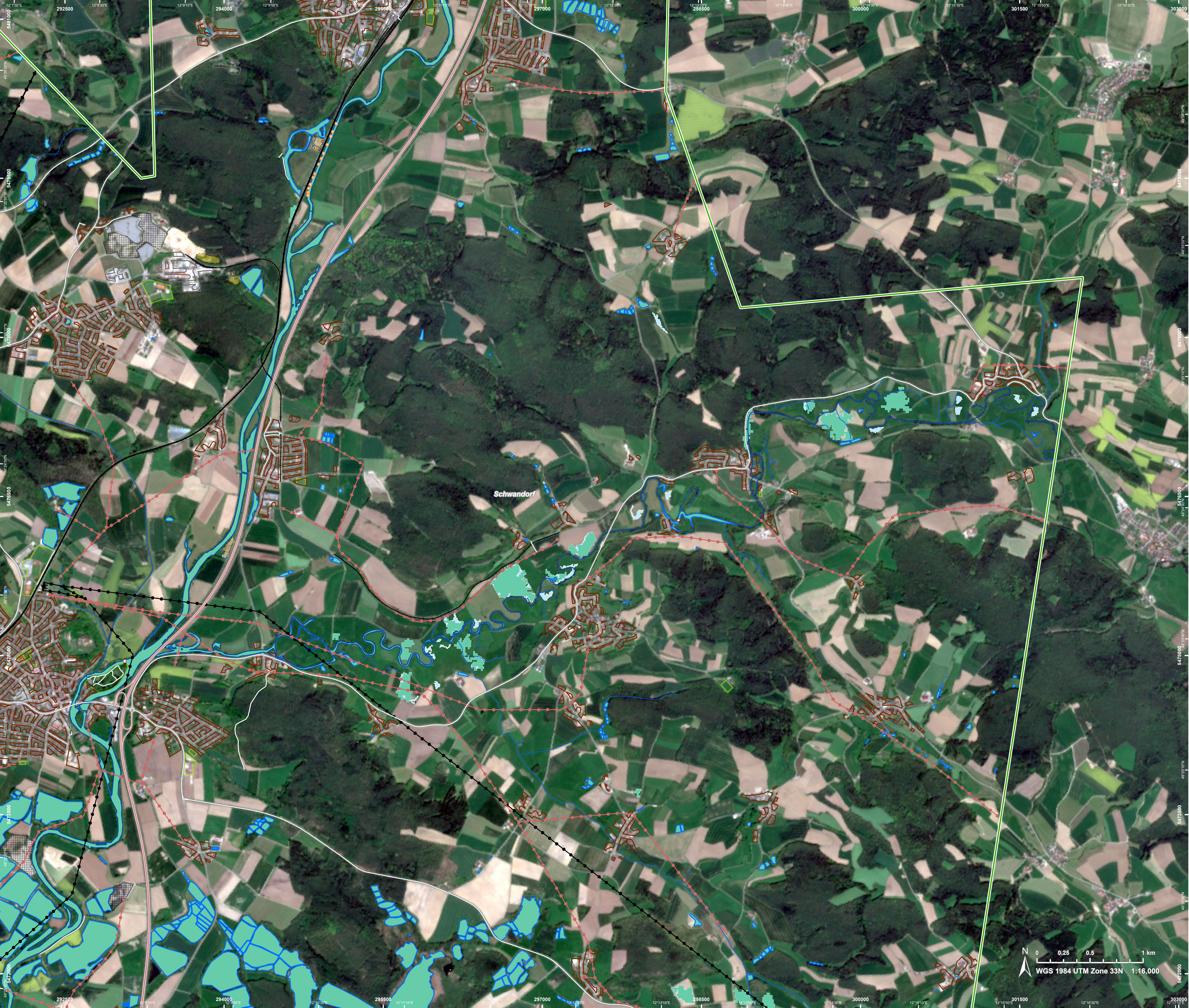
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The 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.

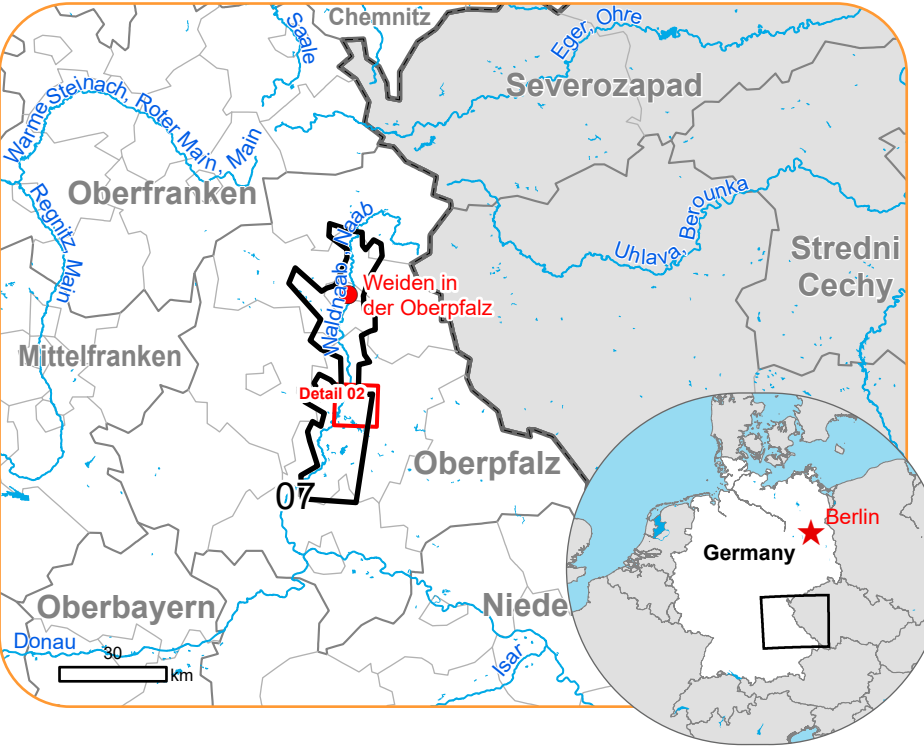
Water depth values are not calculated outside the observed event areas.

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

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 05/06/2024 16:59 UTC
Delineation MONIT02 - Detail map 02



- | | |
|---|--|
| Estimated water depth (m) | Reservoir |
| 0.15 - 0.50 | River |
| 0.50 - 1.00 | Facilities |
| 1.00 - 2.00 | Long-distance pipelines or lines |
| Crisis information | Local pipelines or Water or Aquatic infrastructure |
| Maximum Water Extent | Dam |
| General Information | Mining or extraction |
| Area of Interest | Sport and recreation constructions |
| Built-Up Area | Dump Site |
| Residential | Water or Aquatic infrastructure |
| Non residential | Transportation |
| School, university and research buildings | Highway |
| Hydrography | Main road |
| River | Railway |
| Stream | |
| Lake | |

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

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

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Consequences within the AOI			
	Unit of measurement	Affected	Total in AOI
Flooded area*	ha		89.4
Water Extent**	ha		3,433.1
Maximum Water Extent***	ha		3,460.5
Permanent Water	ha		3,343.7
Estimated population	Number of inhabitants	~ 1,000	~ 180,000
Built-up	Residential Buildings	ha	0
	Office buildings	ha	0
	Wholesale and retail trade buildings	ha	0
	Industrial buildings	ha	0.1
	School, university and research buildings	ha	0.7
	Hospital or institutional care buildings	ha	0
	Military	ha	0
	Cemetery	ha	0
Transportation	Airfield runways	ha	0
	Helipad	ha	0
	Airfield runways	km	0
	Highways	km	0.6
	Primary Road	km	0.2
	Secondary Road	km	0.8
	Long-distance railways	km	2.4
Facilities	Settling Basin	ha	3.1
	Constructions for mining or extraction	ha	9.2
	Power plant constructions	ha	0
	Sport and recreation constructions	ha	7.4
	Other civil engineering works not elsewhere classified	ha	28.4
	Long-distance pipelines, communication and electricity lines	km	10.3
	Local pipelines and cables	km	10.9
	Breakwater	km	0.1
	Dams	km	1.4
Land use	Other	ha	1,753.9
	Pastures	ha	688.9
	Arable land	ha	501.5
	Forests	ha	387.6
	Heterogeneous agricultural areas	ha	83.8
	Shrub and/or herbaceous vegetation association	ha	12.6
	Inland wetlands	ha	4.7

* 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



PROGRAMME OF THE
EUROPEAN UNION

