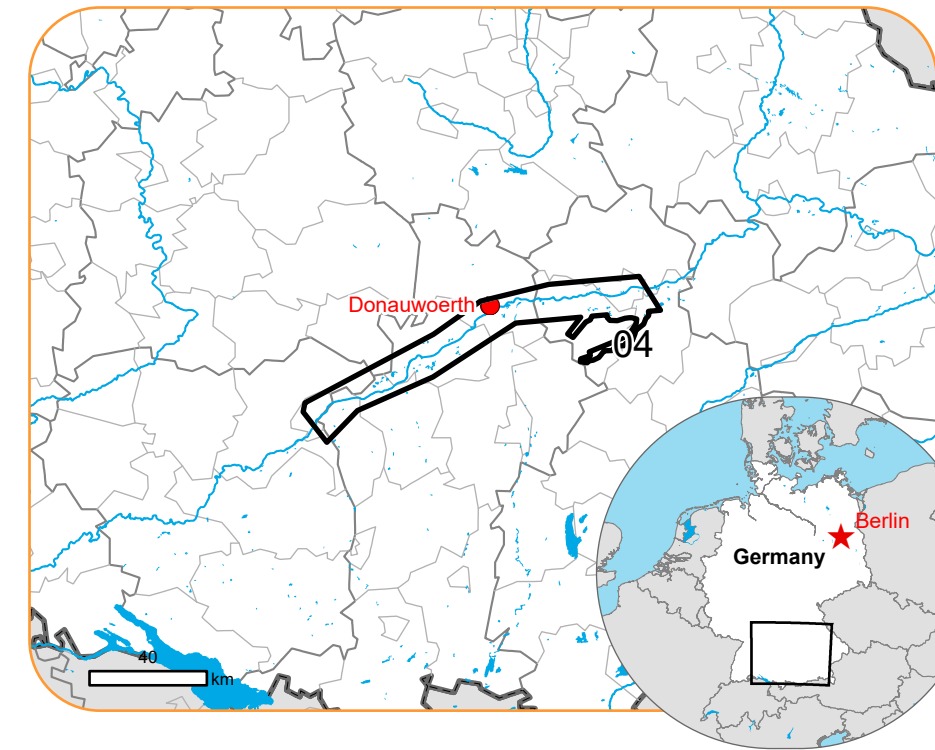




Situation as of 03/06/2024 17:16 UTC  
Delineation MONIT01 - Overview map 01



Flooded area  
1,535.8 ha

Potentially affected  
population  
~ 2100

Potentially Affected Built-up and Transportations

Built-Up  
223.3 ha

Road  
2.2 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	
Region	
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	
River	
Facilities	
Mining or extraction site	
Water Well	
Power plant	
Sport and recreation constructions	
Dump Site	
Water or Aquatic infrastructure	
Transportation	
Highway	
Main road	
Airfield	
Heliport	
Helipad	

**Event:** Starting in the early morning of 31st May 2024, continuous rain (about 50 to 150 l/m<sup>2</sup> 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 08/09/2023 at 10:15 UTC, resolution 10.0 m). This image is used as background image.

Post-event image: COSMO-SkyMed © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 03/06/2024 at 17:13 UTC, resolution 5.0 m). Sentinel 1 (2024), (acquired on 03/06/2024 at 17:16 UTC, resolution 20.0 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.

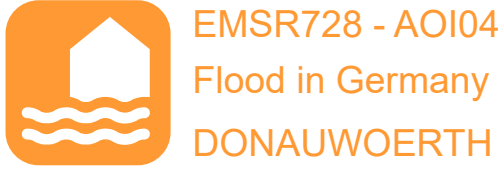
The water extent and water depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum water extent corresponds to the water observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water. Water depth values are not calculated outside the observed event areas.

Map produced by IABG released by e-GEOS on the 04/06/2024.

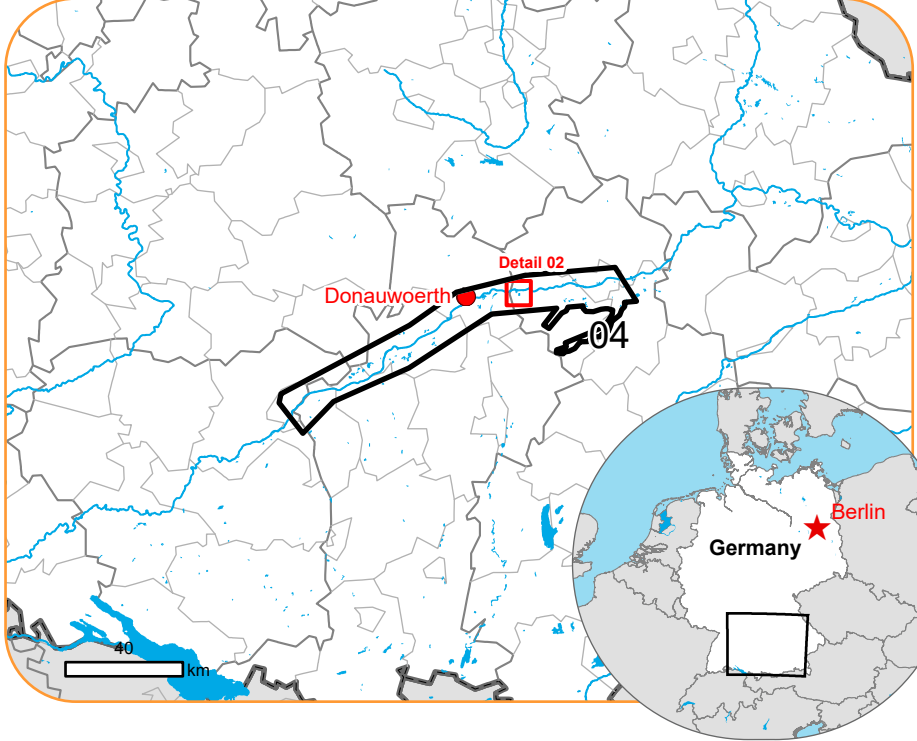
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>







Situation as of 03/06/2024 17:16 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
General Information	Facilities
Area of Interest	Mining or extraction site
Not Analysed	Water Well
Administrative Boundaries	Power plant
Province	Sport and recreation constructions
Municipality	Water or Aquatic infrastructure
Built-Up Area	Transportation
Residential	Main road
Non residential	Railway
School, university and research buildings	Airfield

**Event:** Starting in the early morning of 31st May 2024, continuous rain (about 50 to 150 l/m<sup>2</sup> 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 08/09/2023 at 10:15 UTC, resolution 10.0 m). This image is used as background image.

Post-event image: COSMO-SkyMed © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 03/06/2024 at 17:13 UTC, resolution 5.0 m), Sentinel 1 (2024), (acquired on 03/06/2024 at 17:16 UTC, resolution 20.0 m).

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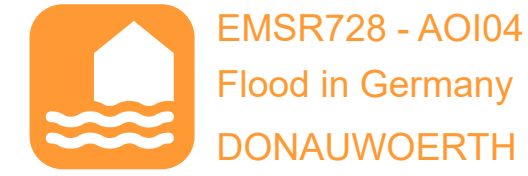
Water depth values are not calculated outside the observed event areas.

Map produced by IABG released by e-GEOS on the 04/06/2024.

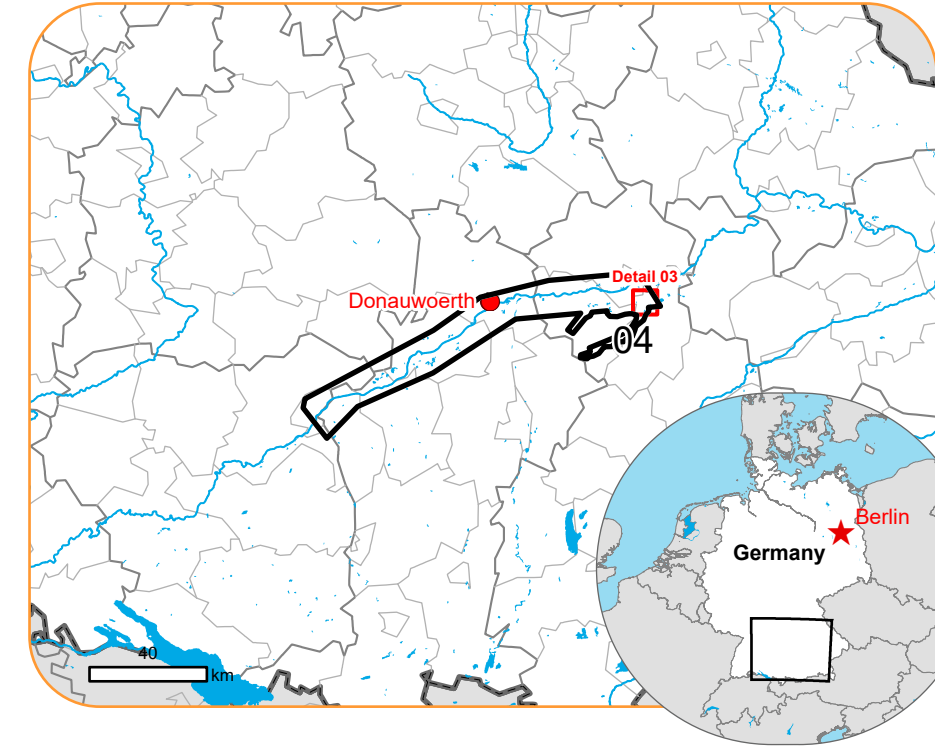
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>







Situation as of 03/06/2024 17:16 UTC  
Delineation MONIT01 - Detail map 03



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
General Information	Facilities
Area of Interest	Mining or extraction site
Administrative Boundaries	Power plant
Province	Sport and recreation constructions
Municipality	Water or Aquatic infrastructure
Built-Up Area	Transportation
Residential	Highway
Non residential	Main road
School, university and research buildings	Railway
Military	Airfield

**Event:** Starting in the early morning of 31st May 2024, continuous rain (about 50 to 150 l/m<sup>2</sup> 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 08/09/2023 at 10:15 UTC, resolution 10.0 m). This image is used as background image.

Post-event image: COSMO-SkyMed © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 03/06/2024 at 17:13 UTC, resolution 5.0 m); Sentinel 1 (2024), (acquired on 03/06/2024 at 17:16 UTC, resolution 20.0 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 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.

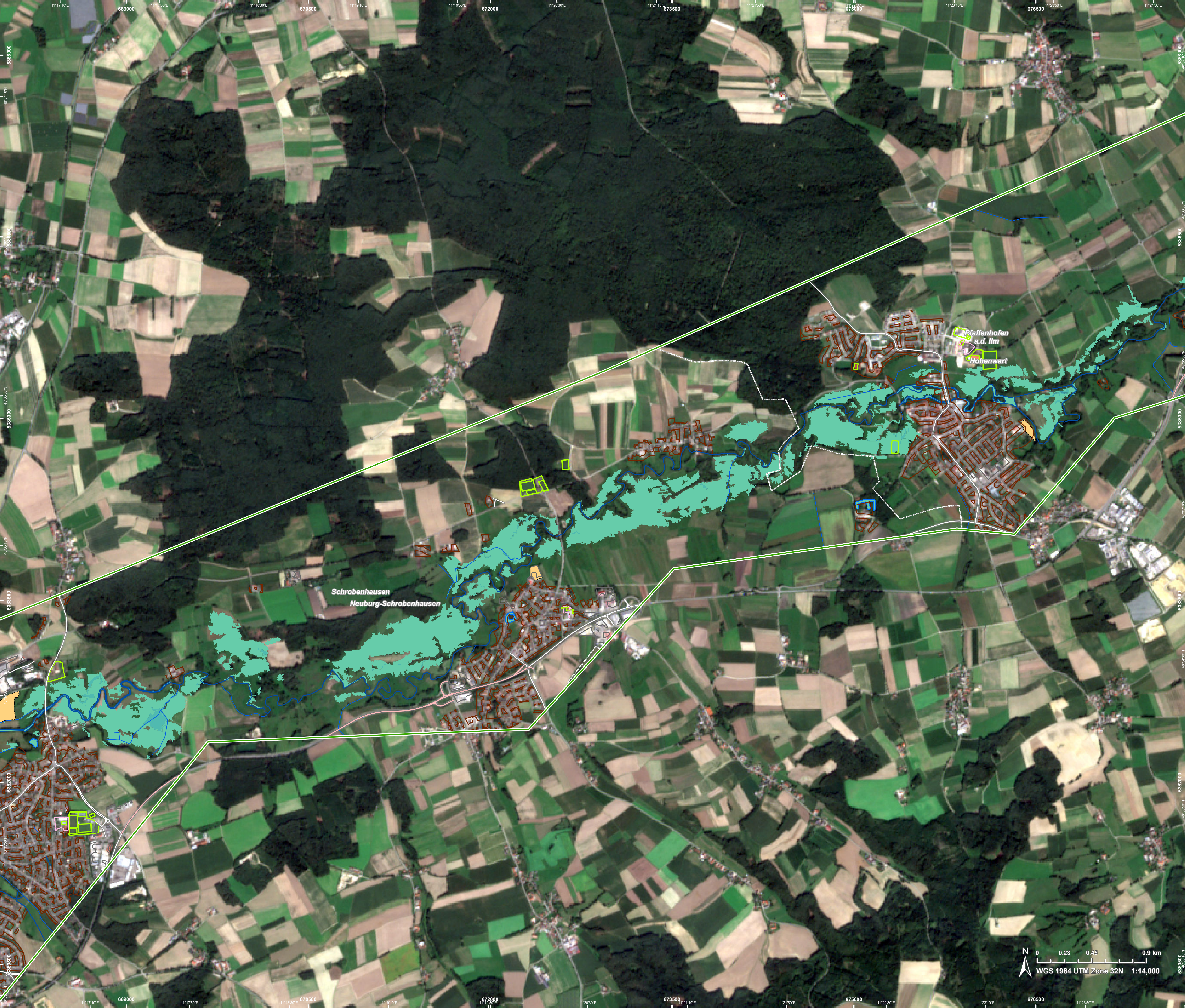
Water depth values are not calculated outside the observed event areas.

Map produced by IABG released by e-GEOS on the 04/06/2024.

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



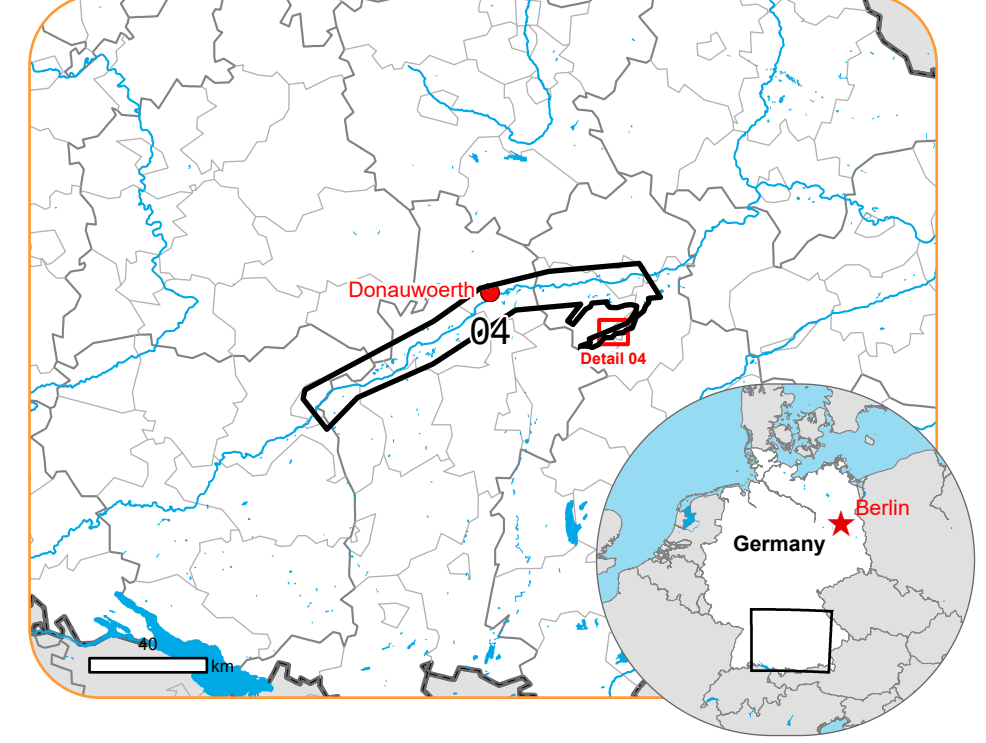






**EMSR728 - AOI04**  
Flood in Germany  
DONAUWOERTH

**Situation as of 03/06/2024 17:16 UTC**  
Delineation MONIT01 - Detail map 04



- Estimated water depth (m)**
  - 0.15 - 0.50
  - 0.50 - 1.00
  - 1.00 - 2.00
- General Information**
  - Area of Interest
- Administrative Boundaries**
  - Province
  - Municipality
- Built-Up Area**
  - Residential
  - Non residential
  - School, university and research buildings
- Hydrography**
  - River
  - Stream
  - Lake
  - River
- Facilities**
  - Sport and recreation constructions
  - Water or Aquatic infrastructure
- Transportation**
  - Highway
  - Main road

**Event:** Starting in the early morning of 31st May 2024, continuous rain (about 50 to 150 l/m<sup>2</sup> 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 08/09/2023 at 10:15 UTC, resolution 10.0 m). This image is used as background image.

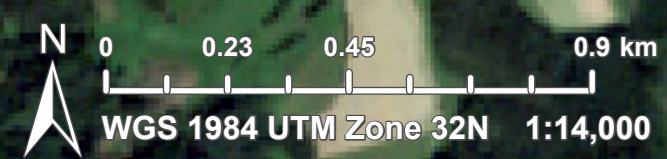
Post-event image: COSMO-SkyMed © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 03/06/2024 at 17:13 UTC, resolution 5.0 m), Sentinel 1 (2024), (acquired on 03/06/2024 at 17:16 UTC, resolution 20.0 m).

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

Map produced by IABG released by e-GEOS on the 04/06/2024.

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Consequences within the AOI		Unit of measurement		Affected	Total in AOI
Flooded area*		ha			1,535.8
Water Extent**		ha			7,163.1
Maximum Water Extent***		ha			8,772.1
Permanent Water		ha			5,627.4
Estimated population	Number of inhabitants			~ 2,100	~ 570,000
Built-up	Residential Buildings	ha	109.0		6,145.9
	Office buildings	ha	0.6		511.2
	Wholesale and retail trade buildings	ha	0		44.6
	Industrial buildings	ha	58.4		2,960.0
	Museums and libraries	ha	14.6		99.5
	School, university and research buildings	ha	0.2		77.3
	Sports halls	ha	31.8		499.0
	Hospital or institutional care buildings	ha	0		22.4
	Military	ha	8.7		665.9
	Cemetery	ha	0.02		36.0
Transportation	Airfield runways	ha	0		1,463.2
	Heliport	ha	0		16.0
	Helipad	ha	0		2.5
	Highways	km	1.0		269.7
	Primary Road	km	1.1		876.3
Facilities	Settling Basin	ha	6.6		83.5
	Constructions for mining or extraction	ha	78.5		356.4
	Power plant constructions	ha	0.8		100.1
	Sport and recreation constructions	ha	7.3		1,182.3
	Other civil engineering works not elsewhere classified	ha	4.7		57.4
	Long-distance pipelines, communication and electricity lines	km	14.8		609.0
	Local pipelines and cables	km	10.6		387.7
	Dams	km	1.2		1.7
Land use	Other	ha	3,959.5		29,649.8
	Arable land	ha	1,519.6		87,489.8
	Pastures	ha	927.7		17,758.7
	Forests	ha	652.2		26,060.1
	Heterogeneous agricultural areas	ha	94.5		683.8
	Shrub and/or herbaceous vegetation association	ha	8.5		385.9
	Inland wetlands	ha	1.2		529.9
	Permanent crops	ha	0		6.0

\* 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.

Access to 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)



PROGRAMME OF THE  
EUROPEAN UNION

