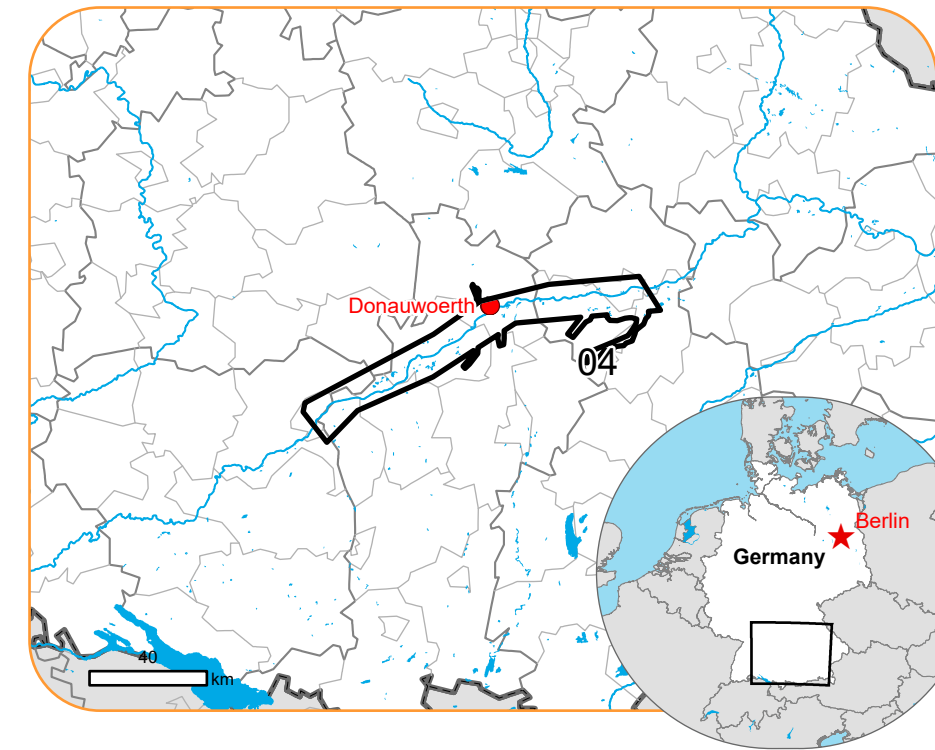


Situation as of 06/06/2024 17:19 UTC  
Delineation MONIT03 - Overview map 01



Flooded area  
512.6 ha

Potentially affected  
population  
~ 650

Potentially Affected Built-up and Transportations

Built-Up  
7.2 ha

Road  
0.6 km

<b>Estimated water depth (m)</b>	Hospital or institutional care buildings
	Military
	<b>Hydrography</b>
	River
	Stream
<b>Crisis information</b>	Lake
Maximum Water Extent	River
<b>General Information</b>	<b>Facilities</b>
Area of Interest	Mining or extraction site
Detail map	Water Well
Image Footprint	Power plant
Not Analysed	Sport and recreation constructions
<b>Administrative Boundaries</b>	Dump Site
Region	Water or Aquatic infrastructure
Province	<b>Transportation</b>
Municipality	Highway
<b>Placenames</b>	Main road
Placename	Airfield
<b>Built-Up Area</b>	Heliport
Residential	Helipad
Non residential	
School, university and research buildings	

**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 SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 06/06/2024 at 17:19 UTC, resolution 5.0 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.

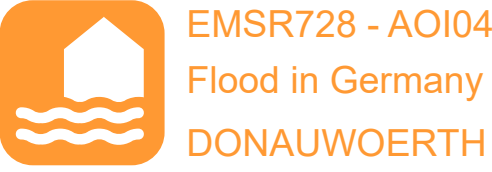
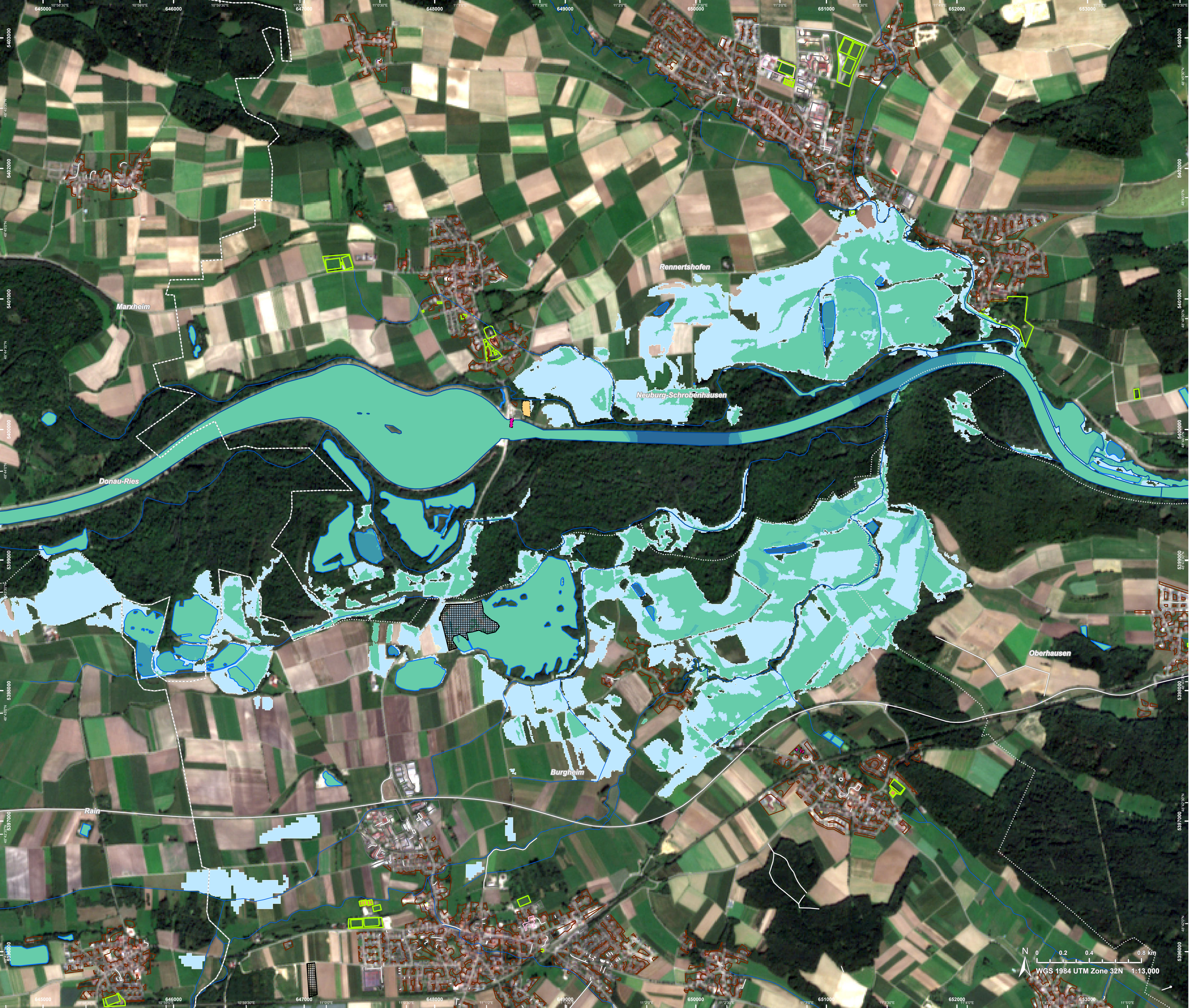
The water extent and water depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum water extent corresponds to the water observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the 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 07/06/2024.

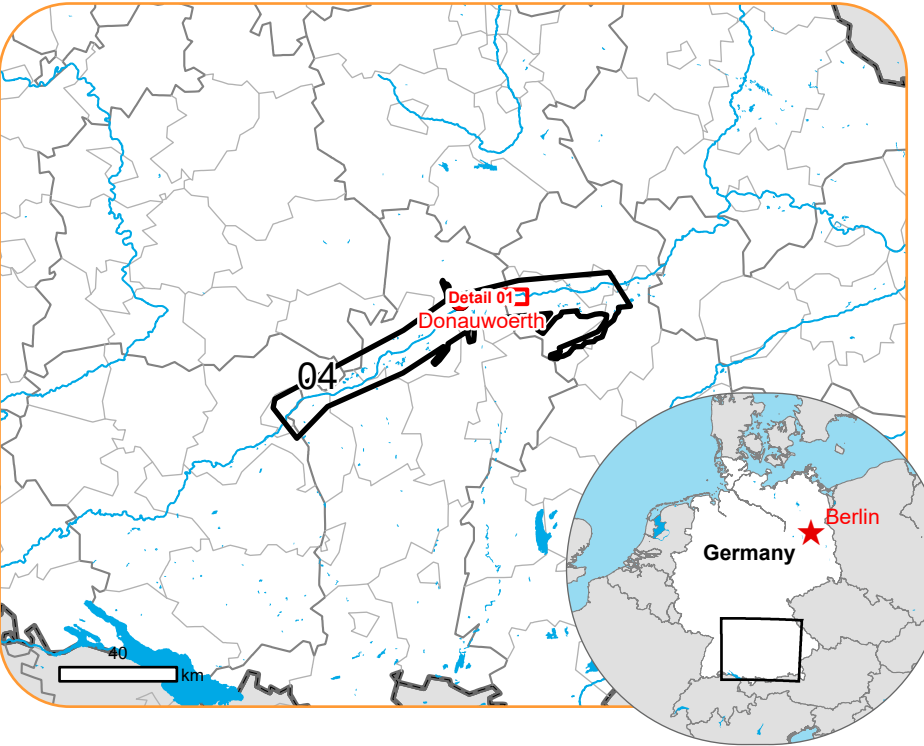
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>







Situation as of 06/06/2024 17:19 UTC  
Delineation MONIT03 - Detail map 01



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

**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.

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Post-event image: COSMO-SkyMed SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 06/06/2024 at 17:19 UTC, resolution 5.0 m).

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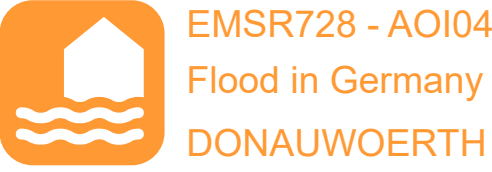
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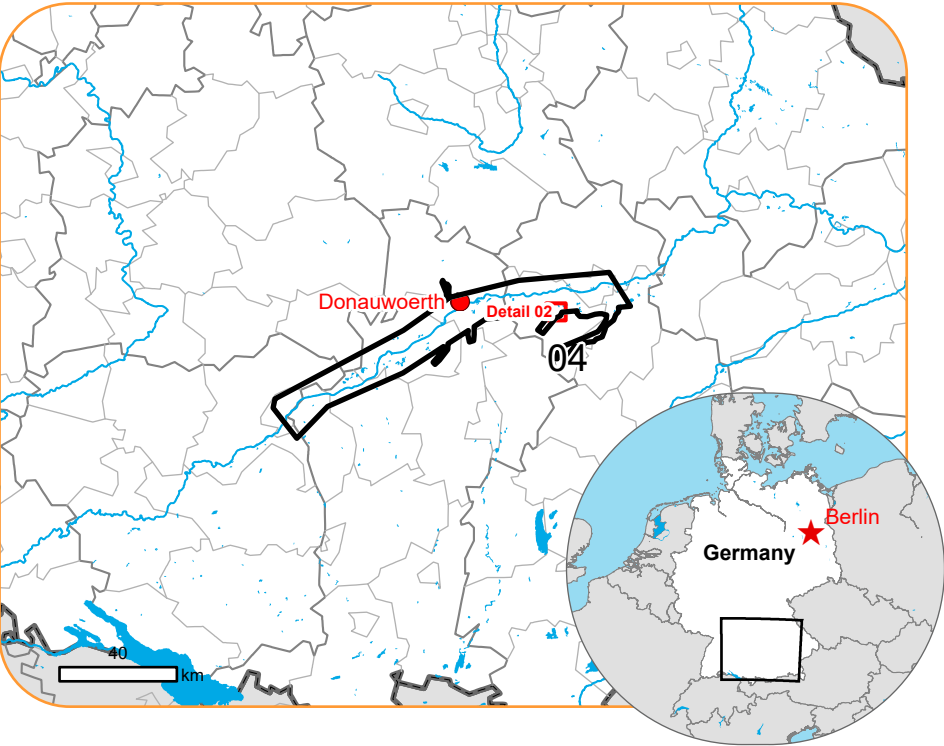
Map produced by IABG released by e-GEOS on the 07/06/2024.

















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 06/06/2024 17:19 UTC  
Delineation MONIT03 - Detail map 02



<b>Estimated water depth (m)</b>	<b>School, university and research buildings</b>
 0.15 - 0.50	 School, university and research buildings
 0.50 - 1.00	 Military
 1.00 - 2.00	<b>Hydrography</b>
<b>Crisis information</b>	 Stream
 Maximum Water Extent	 Lake
<b>General Information</b>	<b>Facilities</b>
 Area of Interest	 Mining or extraction site
<b>Administrative Boundaries</b>	 Sport and recreation constructions
 Municipality	<b>Transportation</b>
<b>Built-Up Area</b>	 Main road
 Residential	 Airfield
 Non residential	

**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 SG © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 06/06/2024 at 17:19 UTC, resolution 5.0 m).

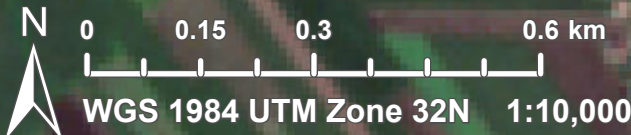
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The water extent and water depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum water extent corresponds to the water observed in all previous products (cumulative analysis). The 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 07/06/2024.

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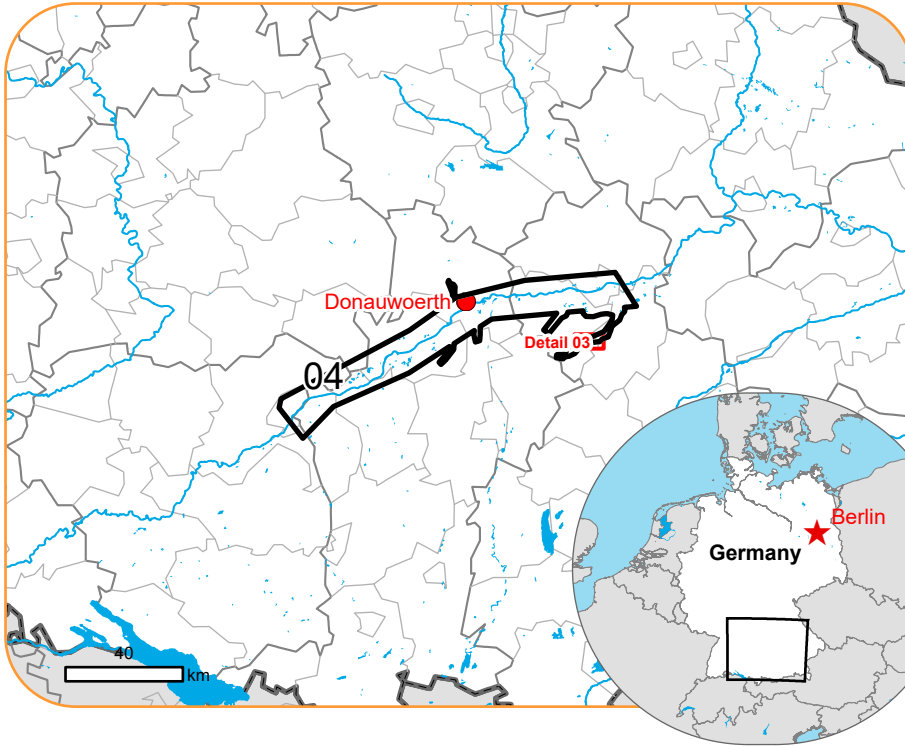






EMSR728 - AOI04  
Flood in Germany  
DONAUWOERTH

Situation as of 06/06/2024 17:19 UTC  
Delineation MONIT03 - Detail map 03



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

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.

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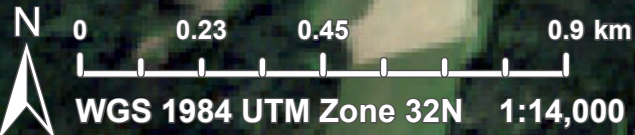
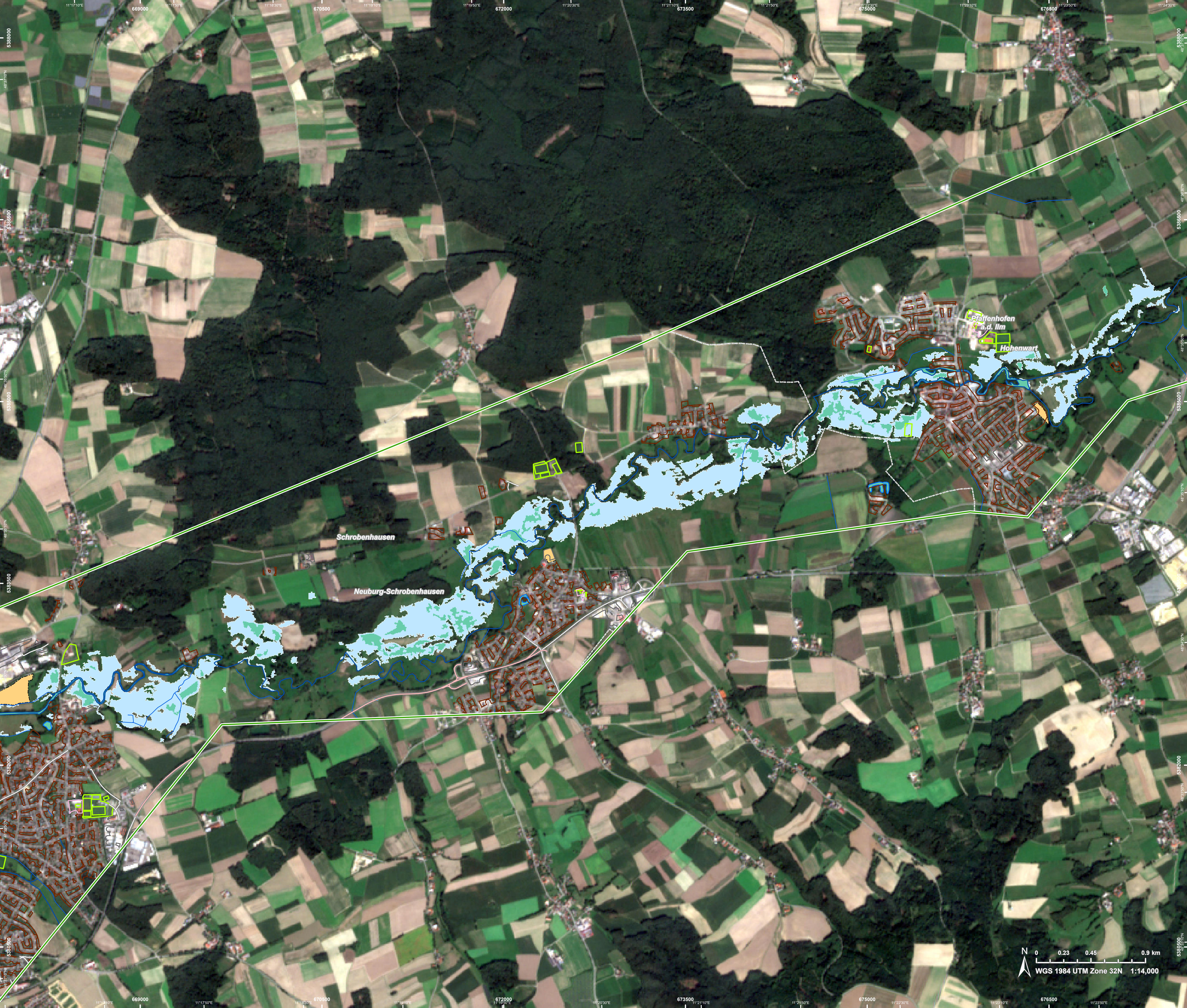
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Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		512.6
Water Extent**		ha		2,289.4
Maximum Water Extent***		ha		13,105.5
Permanent Water		ha		1,776.8
Estimated population		Number of inhabitants	~ 650	~ 580,000
Built-up	Residential Buildings	ha	1.7	3,723.7
	Office buildings	ha	0	515.9
	Wholesale and retail trade buildings	ha	0	45.8
	Industrial buildings	ha	3.4	1,603.6
	School, university and research buildings	ha	0	77.3
	Hospital or institutional care buildings	ha	0	22.4
	Military	ha	2.1	665.9
	Cemetery	ha	0	36.1
Transportation	Airfield runways	ha	0	702.2
	Helipad	ha	0	16.0
	Helipad	ha	0	2.5
	Highways	km	0.2	276.4
	Primary Road	km	0.4	887.8
Facilities	Settling Basin	ha	2.9	89.6
	Constructions for mining or extraction	ha	31.6	331.2
	Power plant constructions	ha	0.3	100.1
	Sport and recreation constructions	ha	2.0	1,186.3
	Other civil engineering works not elsewhere classified	ha	0	27.4
	Long-distance pipelines, communication and electricity lines	km	5.0	618.1
	Local pipelines and cables	km	1.9	398.5
	Dams	km	0.3	1.7
Land use	Other	ha	1,357.6	30,009.9
	Arable land	ha	497.6	88,724.0
	Pastures	ha	279.7	18,523.4
	Forests	ha	144.3	26,182.6
	Heterogeneous agricultural areas	ha	6.1	683.8
	Shrub and/or herbaceous vegetation association	ha	4.1	385.9
	Permanent crops	ha	0	6.0
	Inland wetlands	ha	0	529.9

\* 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.

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

