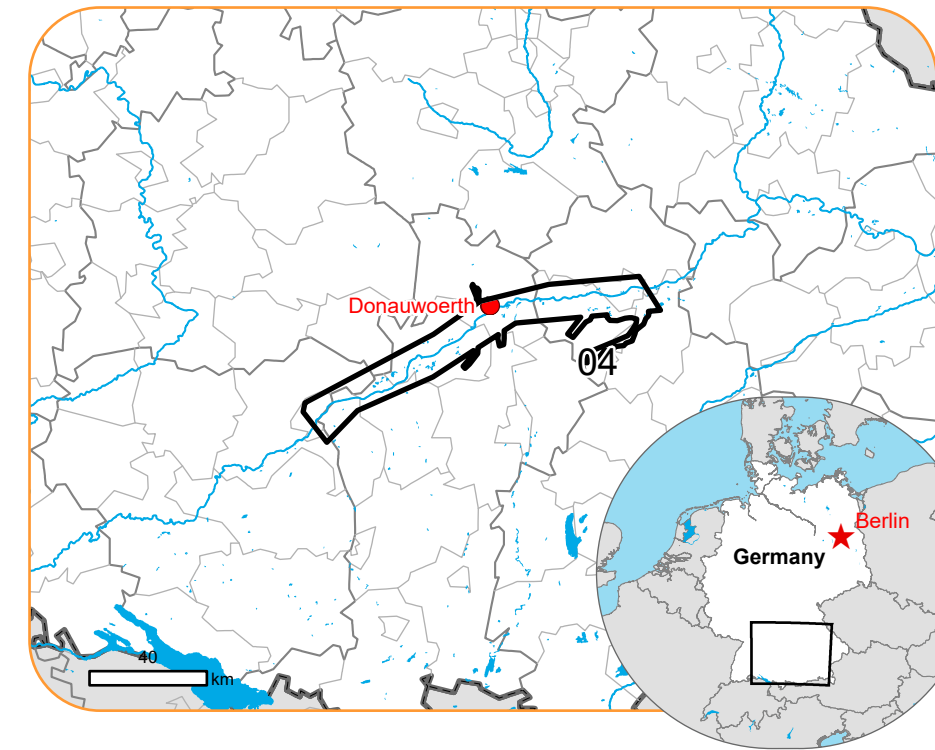




Situation as of 04/06/2024 10:15 UTC  
Delineation Consolidation - Overview map 01



Flooded area  
6,101.1 ha

Potentially affected population  
~2800

Potentially Affected Built-up and Transportations

Built-Up  
40.5 ha

Road  
10.2 km

Airport  
0.9 ha

Estimated water depth (m)	
	0.15 - 0.50
	0.50 - 1.00
	1.00 - 2.00
	2.00 - 4.00
	4.00 - 6.00
Crisis information	
	Maximum Water Extent
	Flood trace
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
	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-Württemberg, 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 Second Generation © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 04/06/2024 at 04:59 UTC resolution 5.0 m).  
COSMO-SkyMed © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 04/06/2024 at 05:11 UTC, resolution 5.0 m).  
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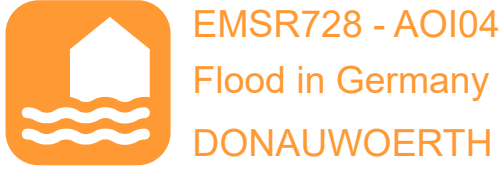
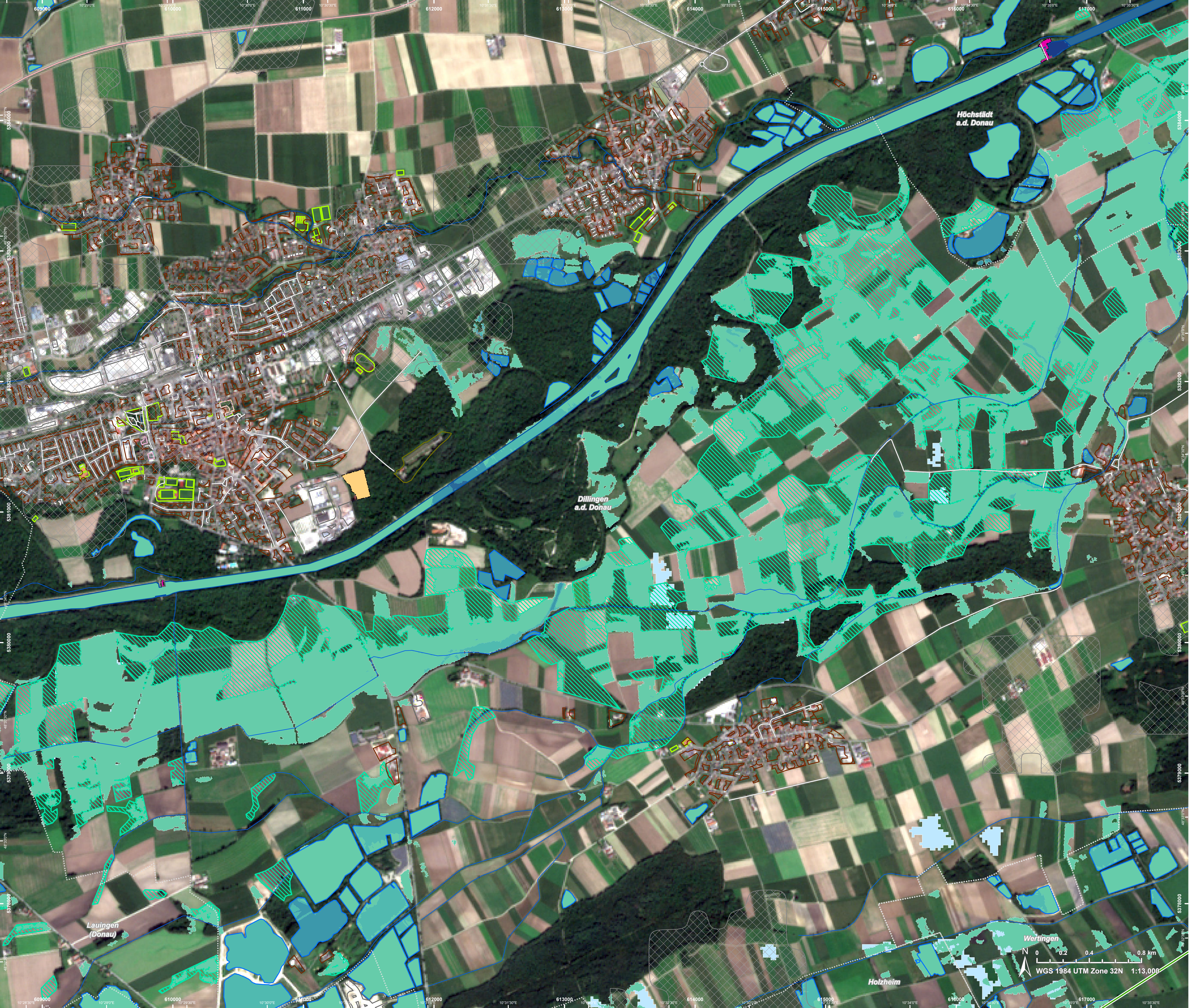
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The water extent and water depth information is based on the analysis of post-event satellite imagery and on Digital Elevation Model data. The maximum water extent corresponds to the water observed in all previous products (cumulative analysis). The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

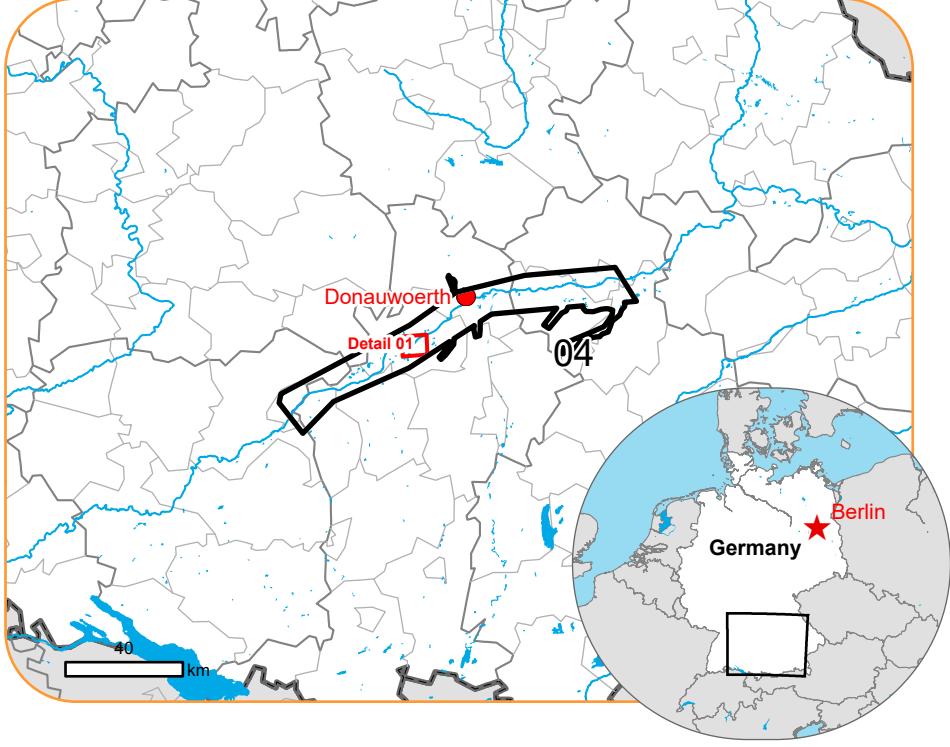
Water depth values are not calculated outside the observed event areas.  
Map produced by IABG released by e-GEOS on the 06/06/2024.

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 04/06/2024 10:15 UTC  
Delineation Consolidation - Detail map 01



- Estimated water depth (m)**
- 0.15 - 0.50
  - 0.50 - 1.00
  - 1.00 - 2.00
  - 2.00 - 4.00
  - 4.00 - 6.00
- Crisis information**
- Maximum Water Extent
  - Flood trace
  - Area of Interest
  - Not Analysed
- Administrative Boundaries**
- Municipality
- Built-Up Area**
- Residential
  - Non residential
- Hydrography**
- River
  - Stream
  - Lake
  - River
- Facilities**
- School, university and research buildings
  - Military
  - Power plant
  - Sport and recreation constructions
  - Water or Aquatic infrastructure
- Transportation**
- Highway
  - Main road
  - 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.

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Post-event image: COSMO-SkyMed Second Generation © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 04/06/2024 at 04:59 UTC resolution 5.0 m).  
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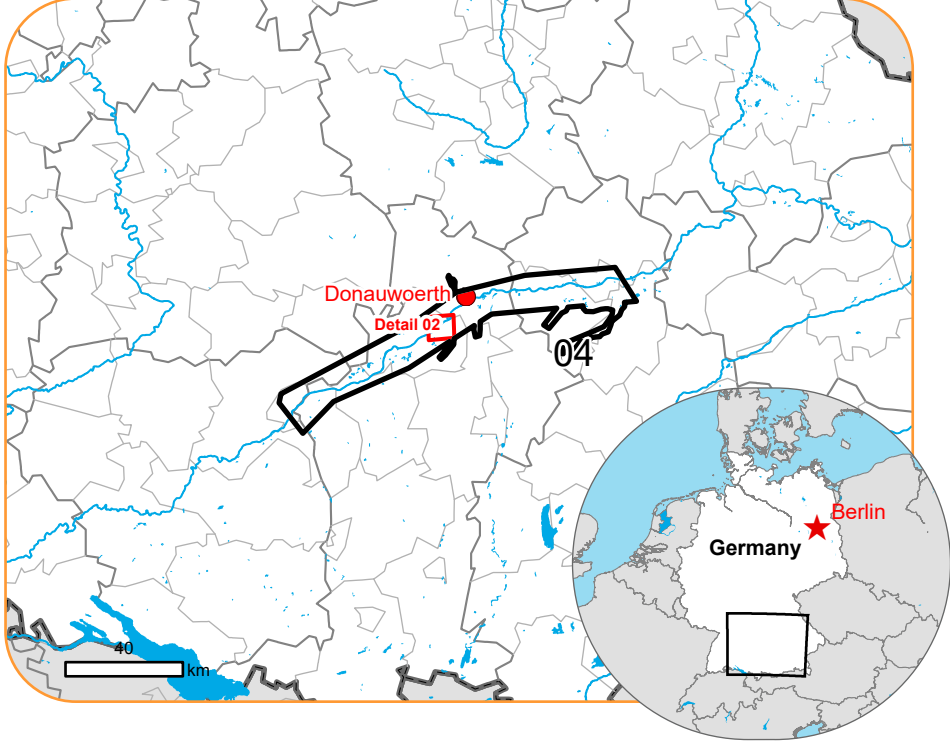
Map produced by IABG released by e-GEOS on the 06/06/2024.

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**Situation as of 04/06/2024 10:15 UTC**  
Delineation Consolidation - Detail map 02



- |                                  |   |
|----------------------------------|---|
| <b>Estimated water depth (m)</b> | <input type="checkbox"/> Non residential  |
| 0.15 - 0.50                      | School, university and research buildings |
| 0.50 - 1.00                      | <b>Hydrography</b>                        |
| 1.00 - 2.00                      | River                                     |
| 2.00 - 4.00                      | Stream                                    |
| <b>Crisis information</b>        | Lake                                      |
| Maximum Water Extent             | River                                     |
| Flood trace                      | <b>Facilities</b>                         |
| <b>General Information</b>       | Mining or extraction site                 |
| Area of Interest                 | Power plant                               |
| Not Analysed                     | Sport and recreation constructions        |
| <b>Administrative Boundaries</b> | Dump Site                                 |
| Province                         | Water or Aquatic infrastructure           |
| Municipality                     | <b>Transportation</b>                     |
| <b>Built-Up Area</b>             | Main road                                 |
| 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.

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Post-event image: COSMO-SkyMed Second Generation © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 04/06/2024 at 04:59 UTC resolution 5.0 m).  
COSMO-SkyMed © ASI (2024), distributed by e-GEOS S.p.A. (acquired on 04/06/2024 at 05:11 UTC, resolution 5.0 m).  
Sentinel-2A (2024) (acquired on 04/06/2024 at 10:15 UTC, resolution 10.0 m).

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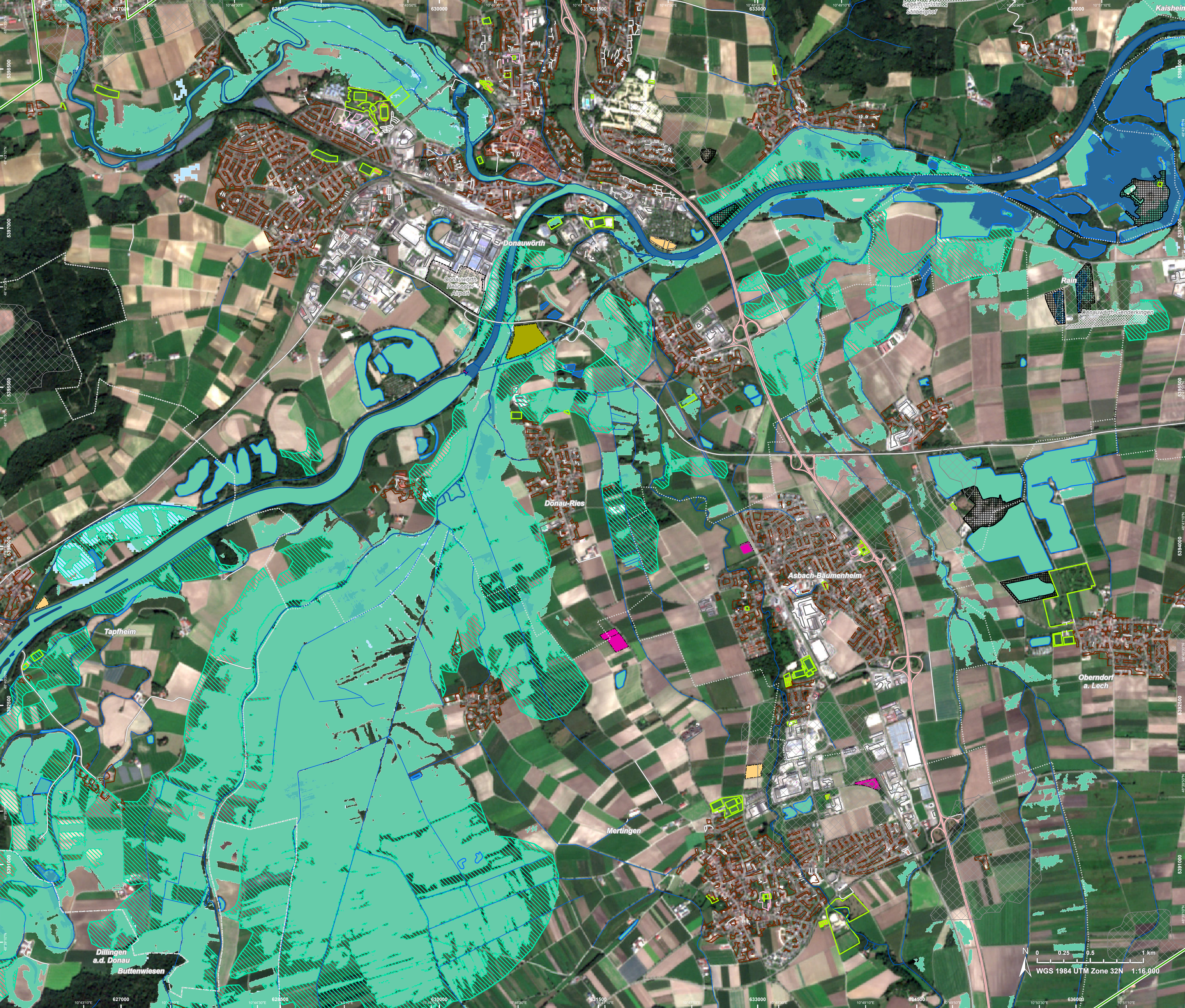
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

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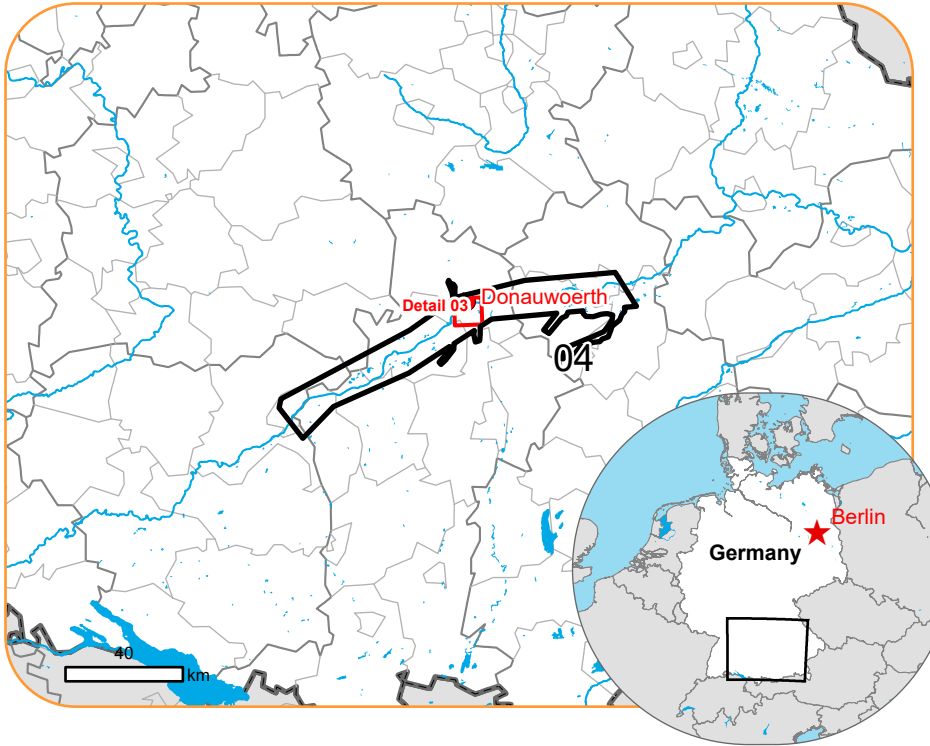
Map produced by IABG released by e-GEOS on the 06/06/2024.

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Situation as of 04/06/2024 10:15 UTC  
Delineation Consolidation - 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
Crisis information	Facilities
Maximum Water Extent	Mining or extraction site
Flood trace	Power plant
General Information	Sport and recreation constructions
Area of Interest	Dump Site
Not Analysed	Water or Aquatic infrastructure
Administrative Boundaries	Transportation
Province	Highway
Municipality	Main road
Built-Up Area	Airfield
Residential	Helipoint
Non residential	Helipad
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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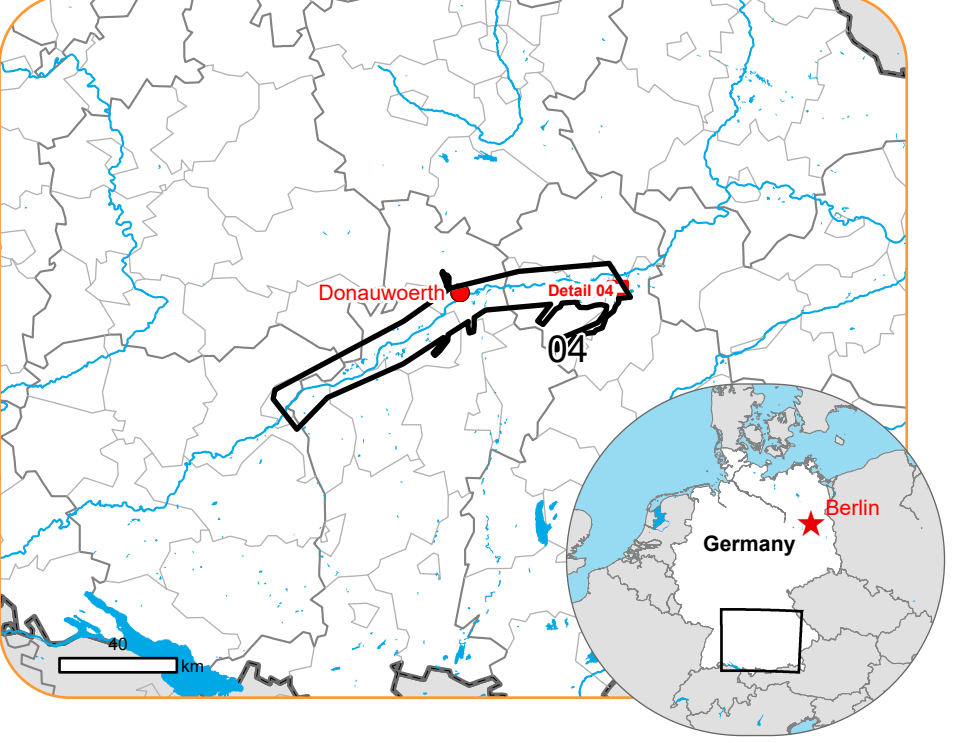
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.


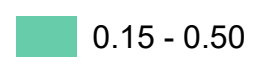

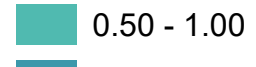
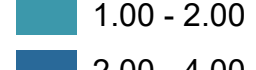

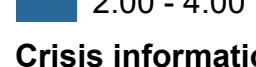




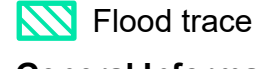



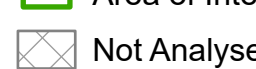
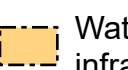

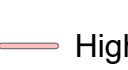
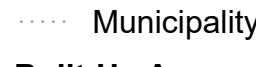
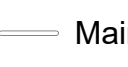


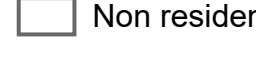
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- |  |   |
|--|---|
| <b>Estimated water depth (m)</b>   |  School, university and research buildings |
|  0.15 - 0.50          |  Military                                  |
|  0.50 - 1.00          | <b>Hydrography</b>  |
|  1.00 - 2.00          |  River                                     |
|  2.00 - 4.00          |  Stream                                    |
| <b>Crisis information</b>  |  Lake                                      |
|  Maximum Water Extent |  River                                     |
|  Flood trace          | <b>Facilities</b>   |
| <b>General Information</b>   |  Mining or extraction site                 |
|  Area of Interest     |  Sport and recreation constructions        |
|  Not Analysed         |  Water or Aquatic infrastructure           |
| <b>Administrative Boundaries</b>   | <b>Transportation</b>   |
|  Province             |  Highway                                  |
|  Municipality        |  Main road                               |
| <b>Built-Up Area</b>   |  Airfield                                |
|  Residential        |   |
|  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.

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Consequences within the AOI				
	Unit of measurement		Affected	Total in AOI
Flooded area*		ha		6,101.1
Flood trace		ha		2,916.2
Water Extent**		ha		11,773.0
Maximum Water Extent***		ha		13,079.3
Permanent Water		ha		5,671.9
Estimated population	Number of inhabitants		~ 2,800	~ 580,000
Built-up	Residential Buildings	ha	15.3	3,723.7
	Office buildings	ha	1.3	515.9
	Wholesale and retail trade buildings	ha	0	45.8
	Industrial buildings	ha	14.9	1,603.6
	School, university and research buildings	ha	0.2	77.3
	Hospital or institutional care buildings	ha	0	22.4
	Military	ha	8.7	665.9
	Cemetery	ha	0	36.1
Transportation	Airfield runways	ha	0.9	702.2
	Heliprot	ha	0.2	16.0
	Helipad	ha	0	2.5
	Highways	km	1.8	276.4
	Primary Road	km	8.3	887.8
Facilities	Settling Basin	ha	6.6	89.6
	Constructions for mining or extraction	ha	80.7	331.2
	Power plant constructions	ha	0.8	100.1
	Sport and recreation constructions	ha	16.3	1,186.3
	Other civil engineering works not elsewhere classified	ha	0.1	27.4
	Long-distance pipelines, communication and electricity lines	km	49.1	618.1
	Local pipelines and cables	km	29.9	398.5
	Dams	km	1.3	1.7
Land use	Arable land	ha	7,631.5	88,724.0
	Other	ha	4,042.8	30,009.9
	Pastures	ha	1,939.5	18,523.4
	Forests	ha	765.4	26,182.6
	Inland wetlands	ha	145.6	529.9
	Heterogeneous agricultural areas	ha	138.0	683.8
	Shrub and/or herbaceous vegetation association	ha	26.3	385.9
	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)



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