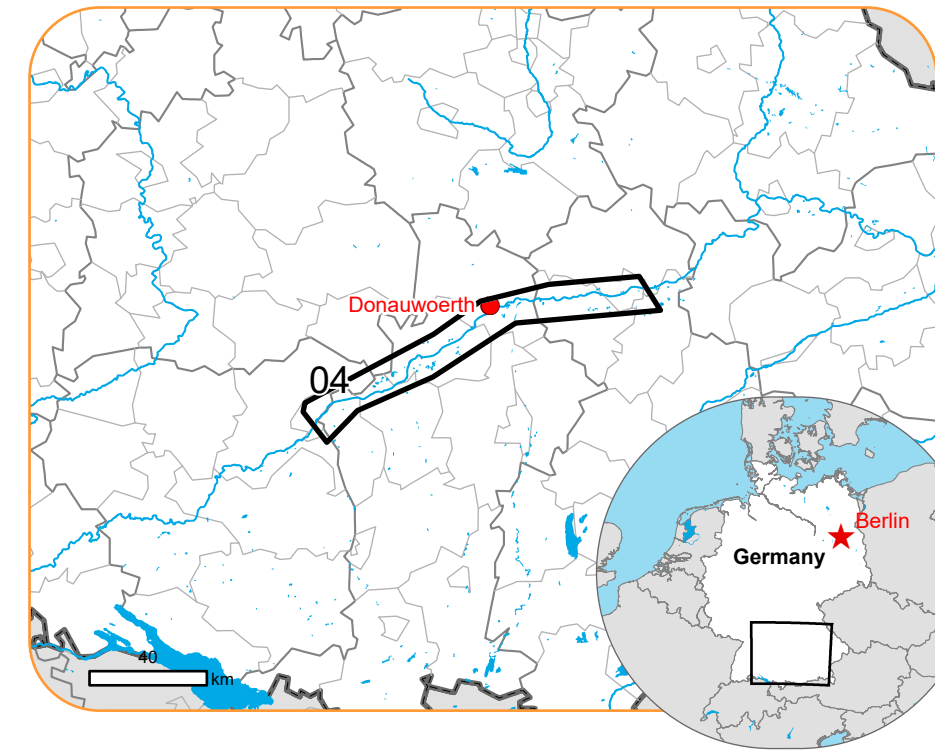
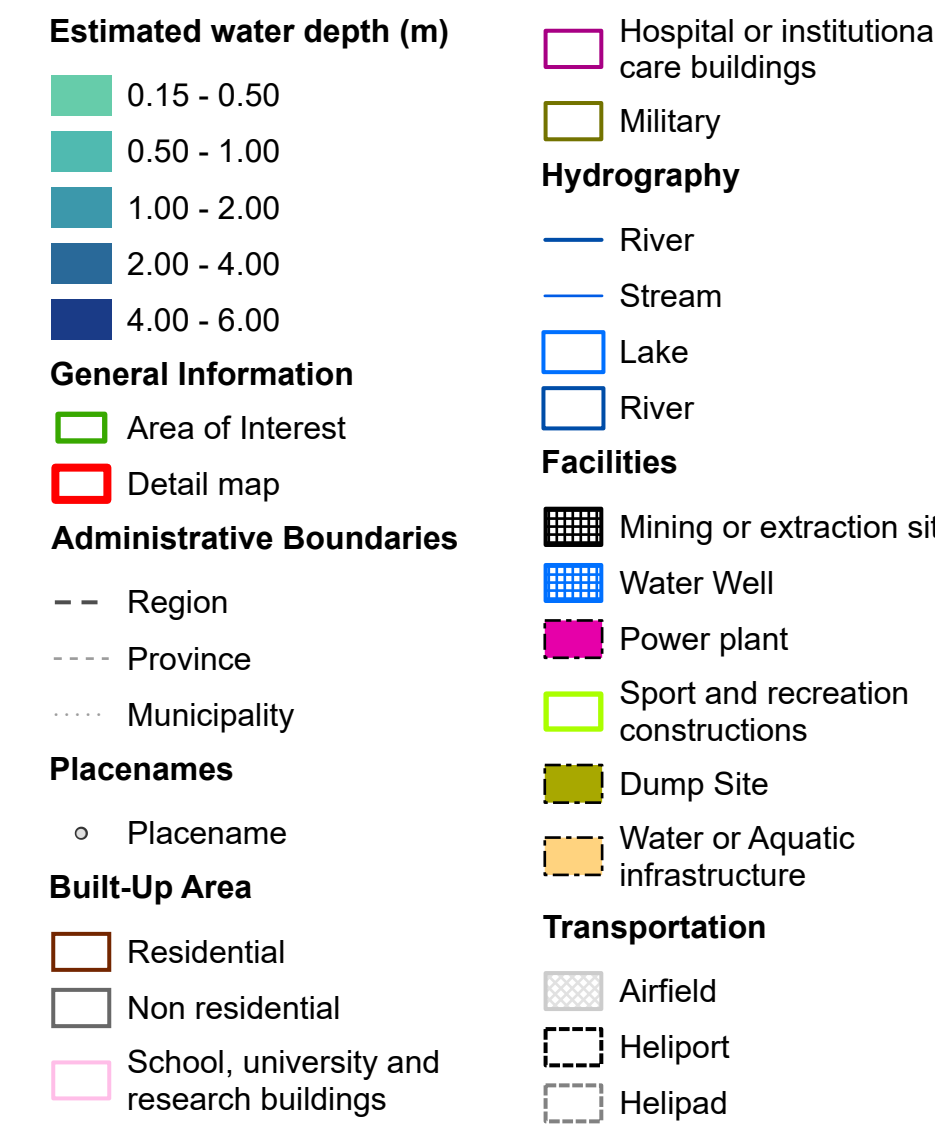


Situation as of 02/06/2024 05:26 UTC  
Delineation - Overview map 01



Potentially Affected Built-up and Transportations



**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.

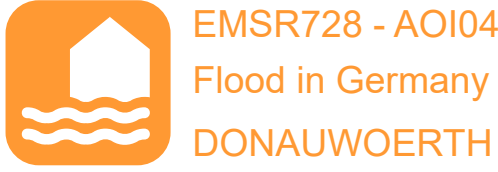
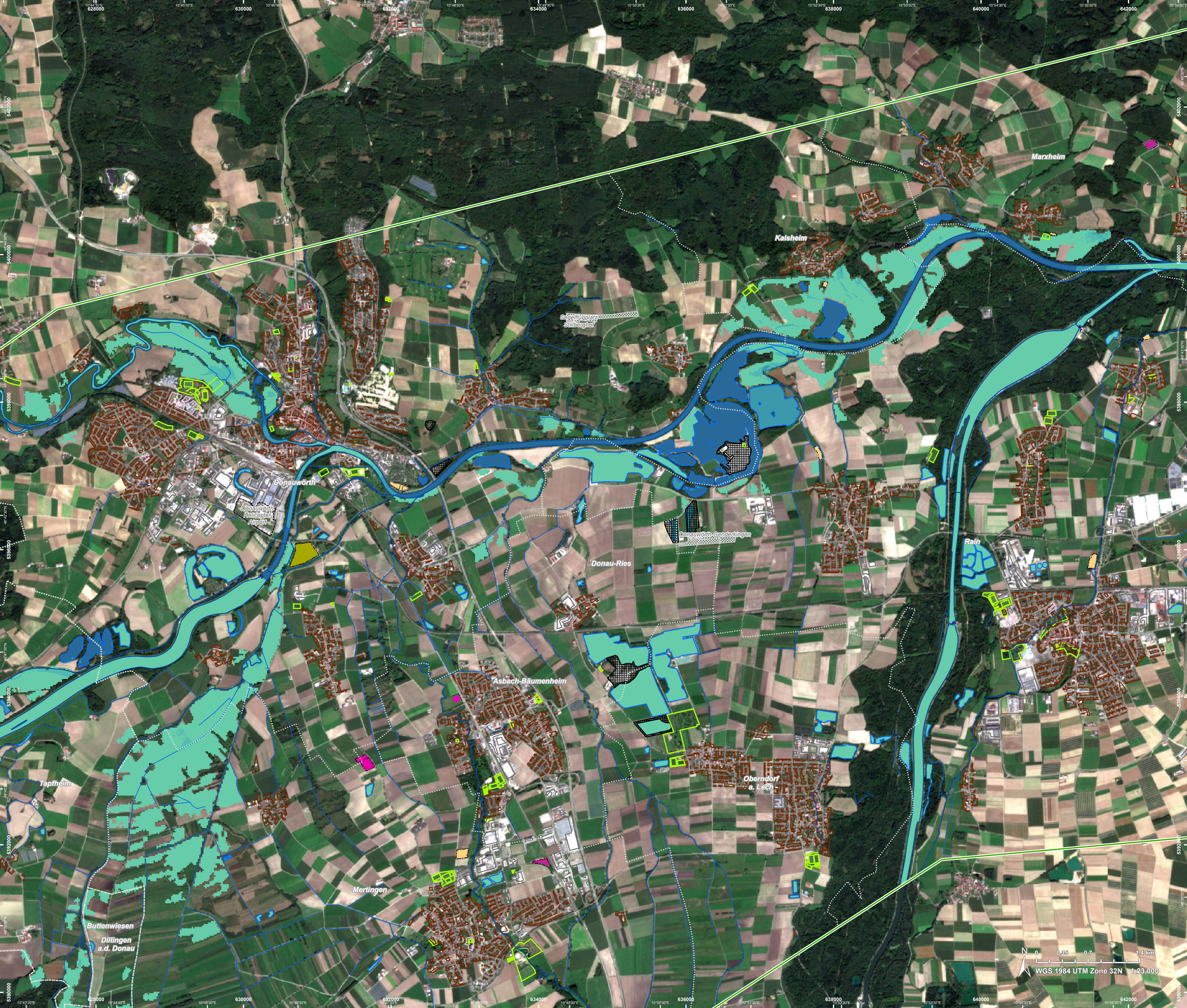
**Data sources and analysis:** Pre-event image: Sentinel-2A (2024) (acquired on 08/09/2023 at 10:15 UTC, resolution 10.0 m). This image is used as background image.  
Post-event image: Sentinel 1 (2024), (acquired on 02/06/2024 at 05:26 UTC, resolution 20.0 m).  
All images are provided under COPERNICUS 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 IABG released by e-GEOS on the 03/06/2024.

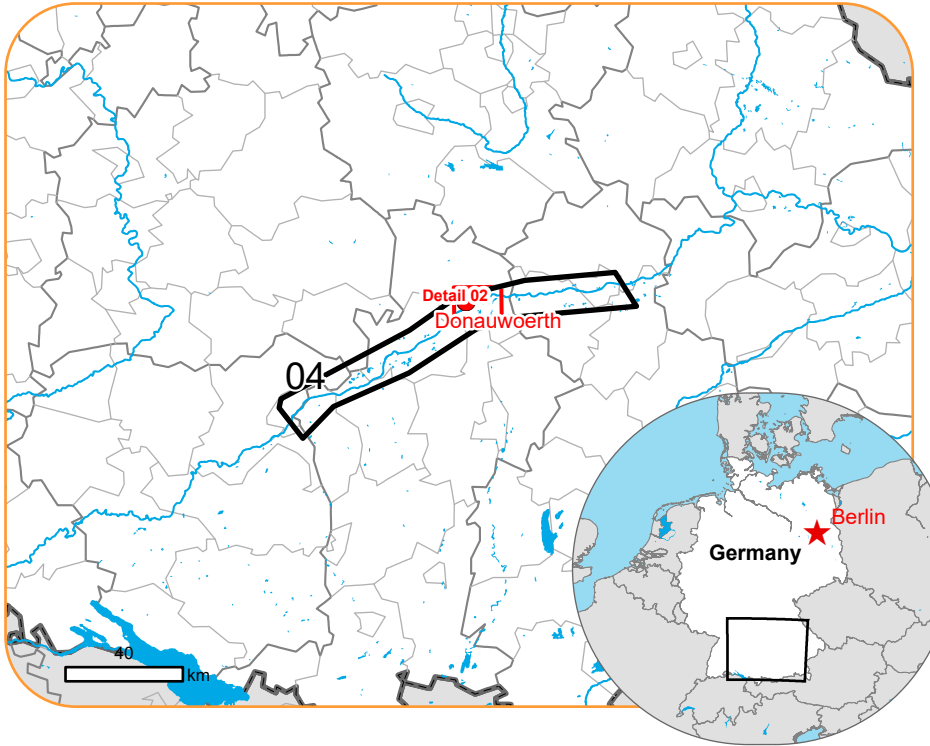
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR728>







**Situation as of 02/06/2024 05:26 UTC**  
Delineation - 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
Administrative Boundaries	Power plant
Province	Sport and recreation constructions
Municipality	Dump Site
Built-Up Area	Water or Aquatic infrastructure
Residential	Transportation
Non residential	Airfield
School, university and research buildings	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.  
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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 IABG 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>



Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area*		ha		1,895.4
Water Extent**		ha		7,424.5
Permanent Water		ha		5,529.0
Estimated population		Number of inhabitants	~ 1,800	~ 540,000
Built-up	Residential Buildings	ha	2.4	3,250.6
	Office buildings	ha	0.5	486.1
	Wholesale and retail trade buildings	ha	0	42.1
	Industrial buildings	ha	11.2	1,450.2
	School, university and research buildings	ha	0.2	67.9
	Hospital or institutional care buildings	ha	0	20.5
	Military	ha	8.7	665.9
	Cemetery	ha	0	31.4
Transportation	Airfield runways	ha	10.2	702.2
	Heliprot	ha	0	16.0
	Helipad	ha	0	2.5
	Airfield runways	km	0	33.8
	Highways	km	1.0	251.6
	Primary Road	km	1.5	813.8
	Secondary Road	km	1.3	434.5
	Local Road	km	3.1	4,738.1
	Cart Track	km	42.7	6,752.2
	Railway Yard	km	0	0.9
	Tramway	km	0	24.9
	Long-distance railways	km	1.0	731.8
Facilities	Settling Basin	ha	6.5	76.0
	Constructions for mining or extraction	ha	67.2	329.2
	Power plant constructions	ha	0.8	100.1
	Sport and recreation constructions	ha	6.7	1,128.8
	Other civil engineering works not elsewhere classified	ha	0	27.4
	Long-distance pipelines, communication and electricity lines	km	18.6	597.5
	Local pipelines and cables	km	10.3	348.4
	Dams	km	1.2	1.7
Land use	Other	ha	3,906.0	27,911.1
	Arable land	ha	1,968.0	82,499.8
	Pastures	ha	778.7	14,889.6
	Forests	ha	632.7	25,559.3
	Heterogeneous agricultural areas	ha	109.1	643.6
	Inland wetlands	ha	21.4	529.9
	Shrub and/or herbaceous vegetation association	ha	8.5	387.4

\* 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

**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)

