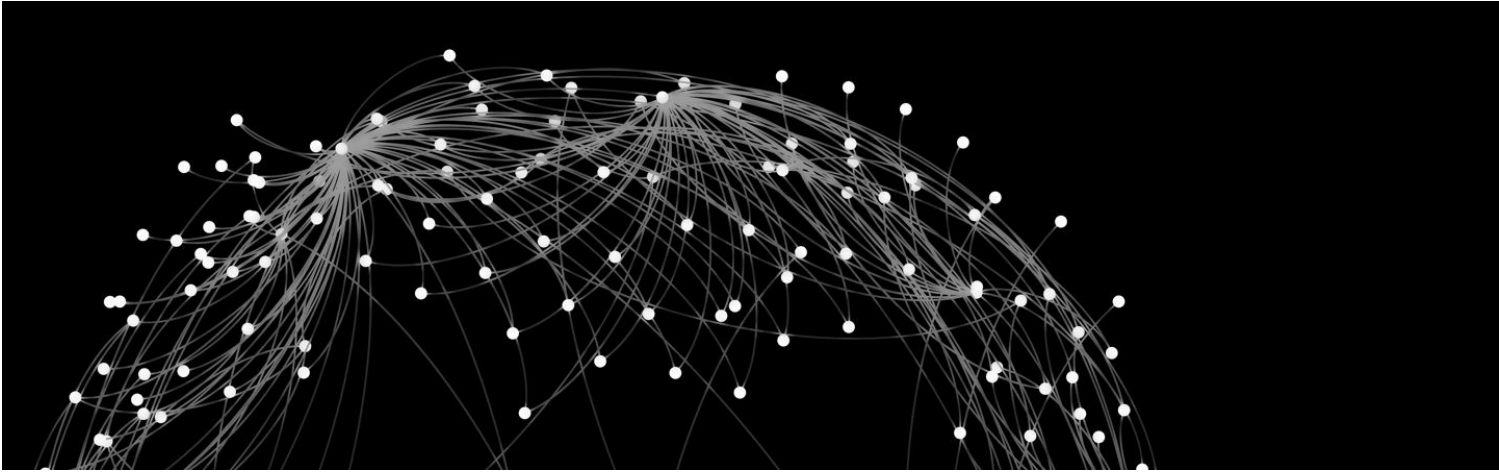


NATHAN



NATHAN

Single Risk Assessment Report

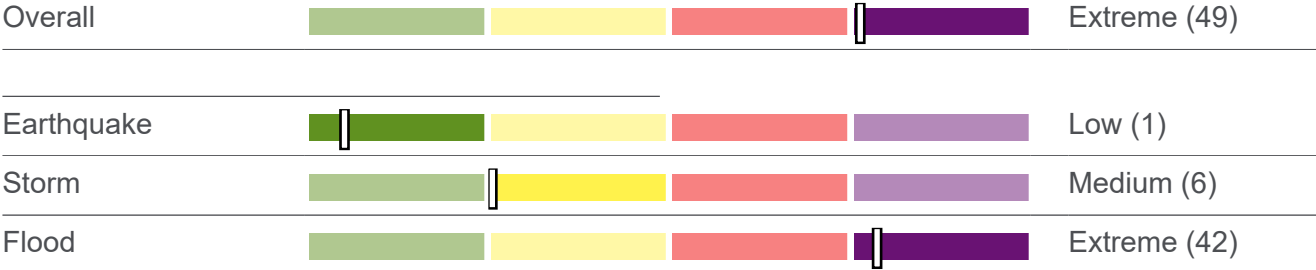
03/01/2022

Single Risk Assessment Report

Risk Location	DEU
Longitude/Latitude	11.0349E, 50.9764N
Munich Re Risk Location Quality	Coordinates (100)
People per km²	Class 5: ≥ 200
Elevation	206m
CRESTA Zone Low Res	DEU_99 (Erfurt)
CRESTA Zone High Res	DEU_99084 (Erfurt-99084)
Distance to Coast	> 50 km
Distance to Fault	> 50 km

Risk Score Rating

Weighted and summarized Risk value for ordinary commercial and industrial business



Hazard Score Rating

Hazard zoning values for significant natural hazards

	low	high	hazard rating
Earthquake			Zone 0: MM V and below
Volcanoes			No hazard
Tsunami			No hazard
Tropical Cyclone			No hazard
Extratropical Storm			Zone 2: 121 - 160 km/h
Storm Surge			No hazard
Hail			Zone 3:
Lightning			Zone 2: 1 - 4
Tornado			Zone 3:
Wildfire			No hazard
River Flood			100
Flash Flood			Zone 2
Soil and Shaking			Class 3 - Soft Rock/dense soil

Legend

Earthquake

- Zone 0: MM V and below
- Zone 1: MM VI
- Zone 2: MM VII
- Zone 3: MM VIII
- Zone 4: MM IX and above

Probable maximum intensity (MM: modified Mercalli scale) with an exceedance probability of 10% in 50 years (equivalent to a „return period“ of 475 years) for medium subsoil conditions.

Tropical Cyclone

- Zone 0: 76 - 141 km/h
- Zone 1: 142 - 184 km/h
- Zone 2: 185 - 212 km/h
- Zone 3: 213 - 251 km/h
- Zone 4: 252 - 299 km/h
- Zone 5: ≥ 300 km/h

Probable maximum intensity with an exceedance probability of 10% in 10 years (equivalent to 'return period' of 100 years).

Hail

- Zone 1: low
- Zone 2:
- Zone 3:
- Zone 4:
- Zone 5:
- Zone 6: high

Frequency and intensity of hailstorms.

Wildfire

- No hazard
- Zone 1: low
- Zone 2
- Zone 3
- Zone 4: high

The effects of wind, arson and fire-prevention measures are not considered.

Soil and Shaking

- Class 1 - Low: Hard Bedrock
- Class 2 - Rock
- Class 3 - Soft Rock/dense soil
- Class 4 - Stiff Soil
- Class 5 - Soft Soil
- Class 6 - High: Reclaimed Land

Underground conditions influencing earthquake intensity (based on geological, soil and hydrological information).

Volcanoes

- No Hazard
- Unclassified
- Zone 1: Minor hazard
- Zone 2: Moderate hazard
- Zone 3: High hazard

*Secondary effects that can occur as a result of the large-scale distribution of volcanic particles (e.g. climate impacts, supraregional ash deposits) are not considered

Extratropical Storm

- No Hazard
- Zone 0: ≤ 80 km/h
- Zone 1: 81 - 120 km/h
- Zone 2: 121 - 160 km/h
- Zone 3: 161 - 200 km/h
- Zone 4: > 200 km/h

Probable maximum intensity with an average exceedance probability of 10% in ten years (equivalent to a „return period“ of 100 years). Areas were examined in which there is a high frequency of extratropical storms (approx. 30°–70° north and south of the equator).

Lightning

- Zone 1: 0,2 - 1
- Zone 2: 1 - 4
- Zone 3: 4 - 10
- Zone 4: 10 - 20
- Zone 5: 20 - 40
- Zone 6: 40 - 80

Global frequency of lightning strokes per km² and year. Lightning frequency is determined by counting the total number of lightning flashes independently of whether they strike the ground or not.

River Flood

- 0
- 500
- 100

Areas threatened by extreme floods. JBA flood maps with return periods of 100 and 500 years.

Tsunami

- No Hazard
- Zone 0 minimal flood risk
- Zone 1000 year return period
- Zone 500 year return period
- Zone 100 year return period

Zones based on 100m SRTM (Version 4.1) elevation model, taking into account height above sea level and distance from coasts.

Storm Surge

- No Hazard
- Zone 1000 year return period
- Zone 500 year return period
- Zone 100 year return period

Detailed calculation for coasts and the shores of large lakes. Zones based on 30m ALOS Digital Elevation Model (DEM), taking into account wind speed and bathymetry (underwater depth of lake or ocean floors). Does not consider dykes.

Tornado

- Zone 1: low
- Zone 2:
- Zone 3:
- Zone 4: high

Frequency and intensity of tornados.

Flash Flood

- Zone 1: low
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6: high

Frequency and intensity of flash floods.

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