

Supplement I)

Data basis for the mapping of the Holocene floodplain terraces on the Lower Rhine

A) Maps

Geological maps

Geologisches Landesamt Nordrhein-Westfalen / Geologischer Dienst Nordrhein-Westfalen, Krefeld.

Scale 1:100.000 with explanatory book:

- C 4302 Bocholt (1967), Editor: Braun, F.J.
- C 4302 Bocholt (1997), Editor: Klostermann, J.

Digital Geological Map NRW 1:100.000

Online:

https://www.gd.nrw.de/pr_od.htm

<https://www.opengeodata.nrw.de/produkte/geologie/geologie/GK/ISGK100/GK100analog/>

Scale 1:25 000 with explanatory book:

- 4103 Emmerich (1981), Editor: Braun, F.J. & Thiermann, A.
- 4303 Wesel (2001), Editor: Jansen, F.
- 4304 Xanten (1989), Editor: Klostermann, J.
- 4404 Issum (1986), Editor: Klostermann, J.
- 4406 Dinslaken (1995), Editor: Jansen, F.
- 4506 Duisburg (1991), Editor: Jansen, F.

Online:

<https://e-docs.geo-leo.de/map>

<https://www.opengeodata.nrw.de/produkte/geologie/geologie/GK/ISGK25/GK25analog/>

Special mappings of the Holocene floodplain (see references)

- Schirmer, 1990: Holocene floodplain terraces in the Dormagen meander, 1: 5.000
- Zhou, 2000: Middle Lower Rhine (from Dormagen to Krefeld), 1:50:000
- Shala, 2001: Lower Rhine (from Krefeld to Dinslaken), 1:50:000

- Berendsen & Stouthamer, 2001; Cohen & Stouthamer, 2012: Lower Lower Rhine (from the mouth of the Lippe) and Rhine-Meuse-Delta, 1:100.000
- Verhagen et al., 2017: Geomorphology of the area around the bifurcation point of the Rhine and Waal

Digital elevation model (DEM) / Digitale Geländemodelle (DGM)

Geobasis NRW: LIDAR-DEM 1 (1 m grid)

Online: https://www.opengeodata.nrw.de/produkte/geobasis/hm/dgm1_xyz/

Geobasis NRW: LIDAR DEM 10 (10 m grid), edition from 2005 – 2011, Archive LVR-Amt für Bodendenkmalpflege im Rheinland)

B) Data (see fig. 2)

- 185 palynologically examined sites (boreholes, trenches) on Holocene areas
- 8 datings from dendrologically dated stems
- 31 radiometric datings (^{14}C)
- 19 OSL datings
- 5749 datings by archeological finds (from database BODEON, LVR-Amt für Bodendenkmalpflege im Rheinland) (Status: 10. Nov. 2021)