**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 (14C)
* 19 OSL datings
* 5749 datings by archeological finds (from database BODEON, LVR-Amt für Bodendenkmalpflege im Rheinland) (Status: 10. Nov. 2021)