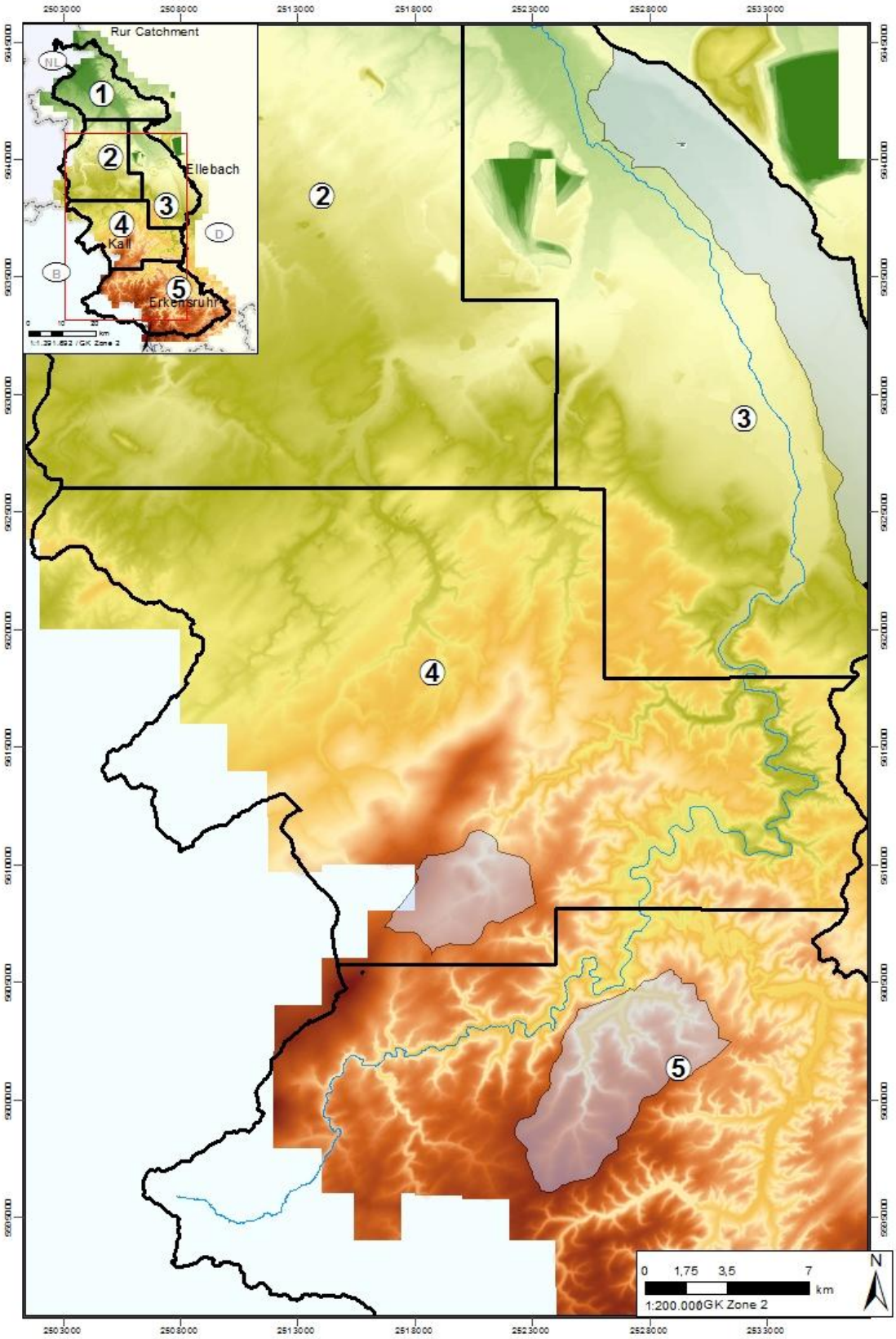
Documentation – DEM_Sciland 1m mosaic tiles, Section 4

Content	
files:	data BDGM_Sciland_1m_section 4 .zip file containing various TIFF datasets documentation this file BDGM_Sciland_1m_section_4.jpg Dokumentation_DGM1_DGM10_scilands.pdf
data size:	data folder: 2,69 GB entire folder: 2,69 GB
extend:	Rur Catchment section 4 as seen in the overview map
provider:	scilands GmbH based on data from the Bezirgsregierung Köln
language:	English
date of publication:	2013
date of purchase:	2008
Description	
description:	**Digital Elevation Model (DEM) of German parts of Rur-catchment.** In Addition to the DGM_Sciland_1m data sets the tiles were combined to bigger Groups, to reduce the amount of individual data sets. Furthermore section 5 contains additional tiles in the south. For certain analyses or algorithms that intend to map surface processes it is imperative to model in a high resolution. The measuring point density of the original date of the Rur catchment justifies the generation of a DGM with 1 m spatial resolution. The density of measurement points located between 0.3 measurements/m² and 1.7 measurements/m². First of all, data gaps were closed by using the SAGA-module 'Close Gaps' and noise was removed by using a modified, variable Lee-filter. Removing the noise also unveiled hidden geomorphological information. For the analysis of current geomorphological processes anthropogenic landforms like embankments, sunken roads or railways, dikes, open cast mining areas etc. are important. When classifying certain relief areas a DGM without anthropogenic landforms is needed. Therefore two datasets have been created. A resampling method developed by the scilands GmbH using local

	minima and maxima preserved the anthropogenic features which could then be detected and removed. Therefore, a filter (SAGA-module) was improved and enabled to identify nearly all artificial dikes in the landscape. A manual correction took place afterwards. Finally, the SAGA-module 'Close Gaps' and the Lee-filter were used again to fill in the missing values. Finally, all datasets were combined whilst trying to produce a fluent passage from one dataset to the other.
abbreviations used in data:	not necessary

Example



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