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Data Article

Statistics about torrents in Lower Austria, status from May 2015

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ABSTRACT

This data presents analyzed data exports of Austrian torrent and avalanche cadaster (TAC) in May 2015. The TAC is developed by Austrian Service for Torrent and Avalanche Control. Data are viewed from different aspects and combinations geographically in the area of Lower Austria, a province of Austria.

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1. Specifications Table

Subject area	Statistics, Mountain Risk and Disaster Management, Torrent and avalanche cadaster (TAC)
More specific subject area	Torrents, Hazard zones
Type of data	Text, tables, figures
How data was acquired	Geographic information system (GIS), TAC
Data format	Raw and analyzed
Experimental factors	TAC is developed since 2004. In Lower Austria since 2010 torrent catchment areas and hazard zone maps are digitized in TAC. Quantity and quality of digitized data are reaching good levels for analyzing data in different points of view. Data statistics in this data paper were made in May 2015
Experimental features	In GIS torrent catchment areas and hazard zone maps are digitized and analyzed. Data were summarized for counties and the whole province of Lower Austria
Data source location	Vienna, Austria, Europe
Data accessibility	Data are included in this paper

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2. Value of the data

- In Austrian water bodies exists a separation in torrents and rivers based on federal law [1]. This situation can be discussed with given statistics in this data paper.
- The paper shows also the dispersion and amount of torrent catchment areas and hazard zone maps in counties and the province of Lower Austria.
- The dispersion of hazard zones caused by torrents can be used for future strategies for preventions. Settlements are often build in menaced locations how should this be managed in the future.

3. Methods

The analyzed data presented here were exported of Austrian TAC (see Chapters 2 and 3 in [1]) with the focus on Austrian federal province Lower Austria. Since 2011 a lot of data were digitized in TAC in Lower Austria. Lower Austria is divided into 21 counties and four cities with own statute, each county has different number of villages. Fig. 1 shows the fragmentation of Lower Austria in its counties and cities with own statute. Each village and city has its own municipality government. Cities with own statute are treated like counties in the statistics.

4. Experimental design and data

4.1. Torrent catchment areas

In Austria torrents are defined in Austrian Forest Act 1975 [2]. Torrents exist only in mountainous regions. The hillshade layer in Fig. 2 is covered by torrent catchment areas in mountainous areas,

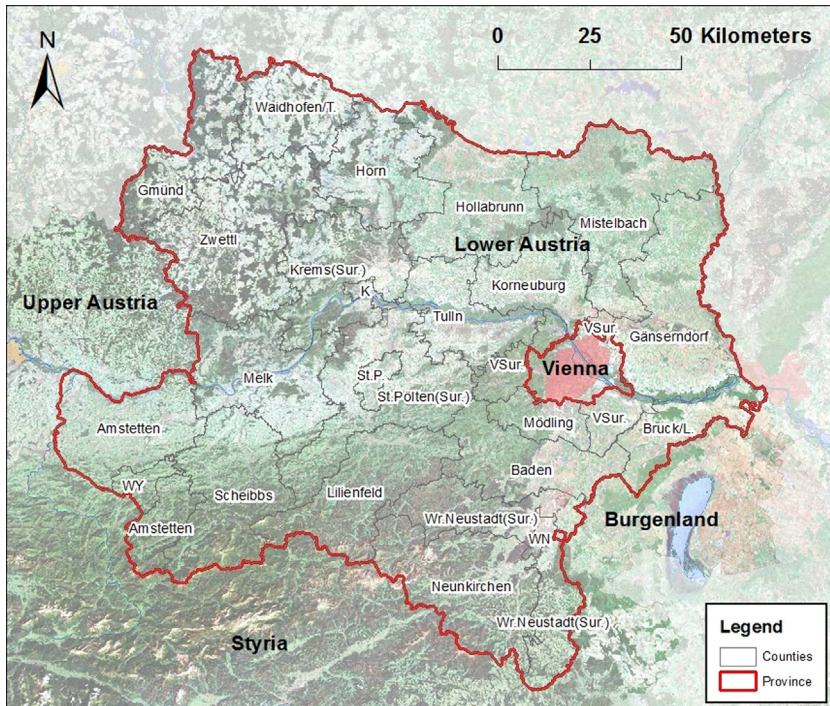


Fig. 1. Counties and cities with own statute in Lower Austria; K=Krems (city), L=Leitha, St. P.=St. Pölten (city), Sur.=surroundings, T=Thaya, VSur.=Vienna-Surroundings, WN=Wr. Neustadt (city), WY=Waidhofen/Ybbs (city), TAC 2015.

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