

Abstract of the Webinar

The webinar will introduce the Polish Atlas for Rainfall Intensities (PANDa) atlas which contains 12,885 specific rainfall models in the form of Intensity-Duration-Frequency (IDF) and Depth-Duration-Frequency (DDF) relationships associated with 5 km by 5 km pixels covering the entire area of Poland. Development of such precise maximum precipitation atlas was possible by development of a digital nation-wide rainfall database containing a 30-years long rainfall series at high time resolution (1-min series) for a network of 100 rain gauges. Most of the database rainfall series originated from the digitalization of paper strips records. The maximum rainfall depths for different time durations from 5 to 4320 min are derived from series and are carefully verified against independent sources of information about precipitation. The distribution of maximum rainfall precipitation for different time durations is established over the dense interpolation mesh by means of geostatistical simulations.

The webinar would also cover the two outputs of **PANDa atlas** as a tool:

Special Internet Portal: portal.atlaspanda.pl

After post processing of geostatistical simulations, 12885 specific rainfall models are developed in the form of DDF models based on generalized

Project: WaterFolder.com

An additional Internet platform WaterFolder.com is developed to convert atlas PANDa into the set of digital tools for engineers allowing for easy and reliable design of drainage systems in Poland. WaterFolder.com project is launched with a close collaboration of leading companies delivering technical solutions from stormwater in Poland. Until now digital tools for design of retention tanks, line drainage and water infiltration facilities are published. A series of new tools is under development.