

Interactive comment on “A simple model for the estimation of the number of fatalities due to floods in Central Europe” by M. Brazdova and J. Riha

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Received and published: 28 February 2014

The authors thank Ms. Stepankova for the discussion and question related to the flood in June 2013 on the territory of the Czech Republic. Because of the date for paper submission we were not able to include the data from this flood in the paper.

In response to the discussion question we have made a brief analysis of the flood losses based on available reports published on the web pages of the Czech Hydrometeorological Institute and the Vltava and Labe River Agencies.

There were 15 fatalities during the flood; however, 5 of them were due to the poor discipline of the water sports' community. These 5 people drowned when canoeing during the extreme flood discharges.

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The flood losses of 15.386 billion CZK mentioned in the interactive comment represent losses related to the property of municipalities summarized over the affected regions. The reports available show the extent of additional losses related to the River Agencies (damage to water structures, river channels, etc.), rescue services, etc. which were estimated at the amount of 2 billion CZK. The preliminary estimate of flood losses thus rises to about 17.38 billion CZK.

After recalculating into USD and analysing the hydrological situation, warning procedures and other factors, the following aggregated factors were obtained $D = 0.898E9$ USD; $P = 0.06$; $W = 0.01$; $LOL = 10.5$ fatalities

Considering of the uncertainties involved in the estimation of material losses and taking into account the hard-to-predict fatalities associated with "flood sports", it can be stated that the model gives reasonable and practically applicable results.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 2633, 2013.