

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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Overall the article seems interesting however the dataset used in your research seems a slightly vague and need a few corrections. Not being a mathematician I focused my attention on the description of the dataset as presented in section 3.1 rather than the calculations and the simulations of your model. There are a number of conceptual/semantic inaccuracies that need to be addressed in order to augment the precision of the article. Please find herewith the list of observations:

Section 3.1

1) P. 2640 L. 21: Give an explanation of “relevant historical flood”. When, in your article, a flood becomes “relevant”? It would be useful to draw a short list of requirements and

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indicators.

2) P. 2641 L. 1-2: It is extremely important that you precisely state the source of your information regarding the impact of floods taken into account in this dissertation.

3) P. 2641 L. 7-14: The flood data “should” include... The standard of living of affected countries should be... – Population density in these countries should be similar... I'd eliminate the conditional. A dataset needs to be framed within precise indications: it does or it does not include a particular item.

4) P. 2641 L. 12: GNP Vs GDP. I'd personally use the second with PPP (Prices and purchasing power parities) adjustments in order to reduce misleading international comparisons derived by fluctuations of exchange rates. You can find some information on PPP on the OECD site: <http://www.oecd.org/std/purchasingpowerparities-frequentlyaskedquestionsfaqs.htm> And <http://www.oecd.org/std/prices-ppp/eurostat-oecdmethodologicalmanualonpurchasingpowerparitiesppps.htm>

5) P. 2641 L. 15 “non-consistent” - Eliminate the quote marks and give a brief explanation for the inconsistency of Asia and Africa in your analysis.

6) P. 2641 L. 23: converted to the 2010 currency level – Please be more precise, during 2010 the fluctuation of currencies was very impacting on exchange rates. Which month are you looking at? And where are you getting the currency exchanges rate from?

7) P. 2642 L. 5: by so-called “flood tourism” – please expand the subject. Since you use this concept to complete the classification of flood deaths it is rather important.

Section 3.2

1) P. 2643 L. 17: The percentage of flood-related deaths increases at twilight or during darkness, especially in the case of flash floods – please insert quote or bibliographical reference.

Thanks for the clarifications.

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