

## ***Interactive comment on “Economic assessment of measures aimed at reducing flood damage to buildings using computer modelling and expert judgement” by Claire Richert et al.***

### **Anonymous Referee #1**

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The articles assess the economic benefits of household level measures to reduce flood damage. The article is well written, clear, the methods seem solid and carried out very well. My only concern is with the innovation compared to earlier similar studies. As the article points out many similar studies have been conducted and reached similar conclusions. This study is new in that it is using more sophisticated synthetic damage functions and possibly a slightly different method to estimate the annual expected efficacy (not entirely clear).

- Point out even better what is new and innovative compared to earlier studies. This should become clear from the abstract and the introduction and maybe even the title.

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- I don't like the word "computer modelling" in the title. Almost everything is computer modelling nowadays. Can you find another word to describe what makes this article new compared to the earlier studies

- You look at a maximum duration of 144 hours. Some floods can last many months, could you discuss this choice and give an estimate of how the conclusions would differ for longer flood durations.

#### Minor comments

Page 1, line 17: You talk about 2 components (hazard and vulnerability) but exposure is a third component (even though irrelevant when looking at only an individual building.

Page 5, line 16: "model of dwelling" should I think be "model of a dwelling"

Page 6, line 12: You look at a maximum duration of 144 hours. Some floods can last many months

Page 6, from line 25: Not entirely sure what you mean by perimeter.

Page 9, formula 5,6 and 7: Could you use a comma between sd, now it looks like an undefined variable rather than s and d.

Page 9: Can you provide an intuitive explanation of maximum cost-efficiency.

Page 13, line 18: "flood barriers must be completed by other measures", I think you mean complemented instead of completed.

Throughout the paper: Can you provide price levels whenever a monetary value is mentioned.

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