

Interactive comment on “Economic damage and spill-overs from a tropical cyclone” by Manfred Lenzen et al.

Anonymous Referee #2

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This is a straightforward paper with a clear structure and presentation. The highlights of this paper appear “(a) quantifying the impact of disasters in a detailed and timely manner and (b) incorporating infrastructure damages into the assessment of losses in employment and value-added”, as written in the conclusion section. As for (a), it may be the first model/paper utilizing the multiregional Australian input-output table with 19 regions and 34 industries, while the process for producing such detailed input-output tables were described in other papers (page 11). So, what’s new in this regard seems to be the use of the superior economic data (in sub-section 3.4.1) written in one paragraph and table 3. It seems to me if this is one of the main contributions of the paper, it should be discussed more thoroughly, if such contents are available.

In terms of (b), it is described in sub-section 3.3.2, in which they indicated that their

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method for this is similar to Hallegatte (2008), as written in page 8. There have been more sophisticated and/or complicated modeling frameworks to incorporate infrastructure damages with input-output analysis for disaster impact analysis, such as Tsuchiya et al. (2007) referred in this paper. So, again, this is not completely new here, either.

Moreover, their detailed multiregional input-output table is used in the rather standard way, as described in pages 6-7, with the Steenge and Bockarjova (2007) approach. There seems no new trick here, either. At the same time, the issues of input-output analysis for disaster impact analysis have been discussed and were summarized well in Oosterhaven (2017), in which he claimed six aspects of disaster impact and argued that input-output analysis covers only a subset of those six aspects. Since this paper also use the standard input-output analysis, the results of this paper should cover only the limited extent of the disaster impacts. At least, this should be discussed, and hopefully would be incorporated in the revised version.

Furthermore, since this paper focuses on the changes in consumption and value-added, the Miyazawa’s enlarged input-output framework should be also discussed and would be included for the comparison of the results.

Oosterhaven, J. (2017) On the limited usability of the inoperability IO model. *Economic Systems Research*, 29: 452-461.

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