

Interactive comment on “Evaluating and analyzing the comprehensive community disaster reduction capability” by Dajun Lian et al.

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The comment was uploaded in the form of a supplement:
<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2018-137/nhess-2018-137-AC2-supplement.pdf>

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Anonymous Referee #1

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The paper addresses an important and timely topic. Community's role in disaster reduction has been emphasized in both the Sendai Framework for Disaster Risk Reduction (2015-2030) and the Chinese disaster reduction plans. The authors present an index-based approach for calculating the community comprehensive disaster reduction capability (CCDR) and a case study in Suzhou, China. Such research is definitely needed in the scientific scholarship. Unfortunately, this paper needs to be enhanced thoroughly. I would encourage the authors to revisit the work and ensure that the research is thoroughly backed up by the appropriate literature and is clearly structured and communicated to the readership.

Specific comments:

Language: The paper is difficult to understand. The language needs to be improved thoroughly. Particularly, the paper structure needs to be improved.

Literature and significance: The significance of the paper and the proposed index is not clearly explained. The proposed index of the community comprehensive disaster reduction capability (CCDR) should be presented in a disaster risk management/science context.

What is the significance of the CCDR to the scientific community?

Response: The overall strengthening of regional comprehensive disaster reduction capability was first proposed by the Chinese government in 2006 after several major natural disasters. In 2011, the overall work thought of China was fully elaborated. As the basic component of the urban public disaster prevention and reduction work, the community is the object of the direct action of different types of disaster causing factors, as well as the concrete and direct bearing body of the compound disaster. This has become the common understanding of the international academic circles. The CCDR quantitative evaluation method and the empirical analysis described in this paper can be used as a universal compliance in the community based disaster risk management model (CBDRM), and it can also be a useful supplement to China's NDCCDR evaluation method.

How do the findings contribute to relevant literature?

Response: 1. It can provide reference for disaster risk management technology on community scale; 2. The index system constructed in this paper takes into account the characteristics of all types of disaster risk, the whole process of disaster management and the main body of disaster prevention and disaster preparedness, which can provide decision-making support for the efficient disaster relief management of local governments; 3. The model is simple and easy to operate, and the results of the evaluation are diverse and universally suitable. The

Fig. 1.

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