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Hydrology and Earth System Sciences
Discussions

Interactive comment on "The KULTURisk Regional Risk Assessment methodology for water-related natural hazards – Part 1: Physical-environmental assessment" *by* P. Ronco et al.

Anonymous Referee #1

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GENERAL COMMENT

This is a useful contribution. The main guidelines to do a KR-RRA analysis are stated and supported with equations.

The main flaw of this paper is poor grammar, which thus makes for poor readability. As a suggestion, the authors should have the manuscript examined and modified to shorten sentences and reduce the superfluous use of adjectives. Some examples have been stated in the comments, but the manuscript has to be checked as only few examples have been picked.

COMMENTS

P7829L10-13 statement seems misleading, the RRA methodology presented here is not used for economic evaluation or social assessment, but rather the outputs of the RRA can be integrated into these assessments. see Fig.2 and P7834L15-18 P7838L13-22 seems at variance with the statement that the methodology is adaptable. Thus, accordingly, what are the limitations of this proposed methodology? P7854L2-5 The authors make reference to RRA as being an old methodology (P7835L4-10), thus the novel concepts of the KR-RRA methodology should be clearly stated? P7842L20-26 The statement seems to either misplaced or unclear, as the KR-RRA methodology is being presented! P7846L22-24 The statement is unclear, based on the scale of the land-cover classification data, the agricultural buildings may be identified as buildings. Thus, the damage would be categorised as damage to buildings (depending on the intersection of the buildings and the hazard). P7854L28 The KR-RRA method seems to be a methodology to evaluate the benefit of risk prevention rather than showing that prevention is accountable? please comment

MINOR COMMENTS

P7828L11 consider using 'strongly' instead of radically P7828L14 'dramatically' is rather unnecessary P7828L19 consider using 'This paper' instead of The present study. P7828L22 consider using 'completed' instead of phased out. P7828L28 is it 'sito-specific' or site-specific P7828L27 'hydrodynamic models' instead of hydrodynamics models P7829L2 should it not be 'receptors' instead of targets? P7828L27-P7829L5 example of a long sentence. P7829L8 change to 'floods' or 'a flood' instead of flood P7829L18 consider 'human life and property' or 'human life and infrastructure' P7829L19 consider 'with an increasing occurence' instead of 'growing' P7828L23 consider 'severe' instead of dramatic and 'factors' instead of determinants P7829L28 'increased' instead of increase P7830L2-4 statement is not clear P7830L8 consider '...that caused 1126 deaths...' P7830L11 consider '...in the summer of...' P7830L14 consider 'Currently, it is widely ...' P7830L19 consider '... supports the development ...'

P7830L21 consider '... resulting from such calamities.' P7830L22-23 consider 'According to the FD , more sophisticated analysis of natural hazards is required...' P7830L23 'further steps ahead' seems unnecessary P7830L25 consider "... risk maps enable the visualisation of of the spatial distribution of (flood risks") ... P7830L27 missing citation P7831L1 consider 'published' instead of emanated P7831L23 missing reference Peppenberg et al. 2012 P7832L22 consider '... availability of datasets...' P7832L27-P7833L6 example of a long sentence P7837L6 consider '...plausible outcome of the future...' P7837L8 consider 'allows' P7837L20 'According to the KR-RRA , a preliminary analysis is required ...' P7838L6-7 poor grammar P7838L13 consider 'Jonkman (2008) provided ...' P7839L14 consider 'where it poses a threat to people' P7839L19 consider 'a hazard map' P7840L16 consider 'elderly' instead of aged Generally the word dramatic could be substituted by using the word 'severe' Generally the word stricken could be substituted by using the word 'affected' P7842L18 consider 'still' instead of standing P7843L13-18 this sentence is unclear in its present form P7844L4 should be 'allows' P7844L15-16 poor grammar P7845L17 consider 'infrastructure' instead of 'the items' P7846L11 'can also cause damages to ...' P7846L17-18 not clear P7847L13 use 'former' instead of 'first ones' P7848L5 consider 'destroying vegetation' P7845L5 consider 'characterized by lower slopes are more susceptible to floods ...' P7849L28 consider 'On the other hand , sf with ...' P7850L21 consider 'separately or attached as ...' P7852L15 consider 'Again, if more detailed ...' P7853L6-7 consider 'neither synergic nor redundant ...' P7855L1 consider 'scenarios' instead of scenario

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 7827, 2014.