

Interactive comment on "Dangerous degree forecast of soil and water loss on highway slopes in mountainous areas using RUSLE model" by Yue Li 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-2017-406/nhess-2017-406-AC3-supplement.pdf

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., https://doi.org/10.5194/nhess-2017-406, 2017.



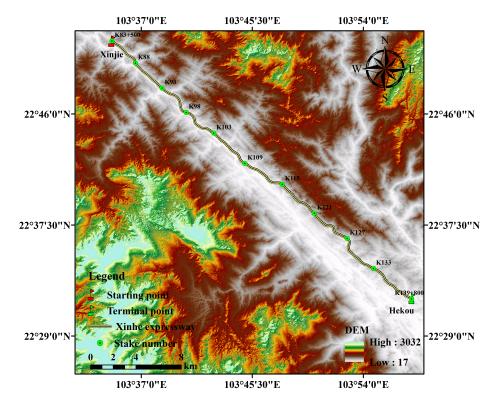


Fig. 1. Overview of study region



Fig. 2. Soil erosion produced by rainwash on slope



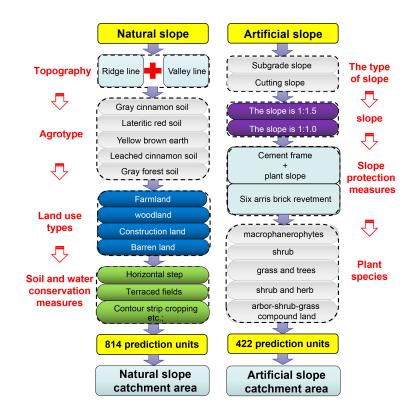


Fig. 3. Prediction unit division

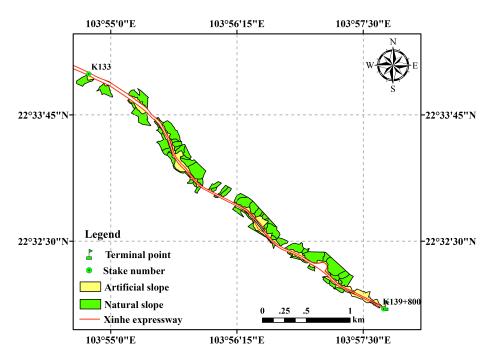


Fig. 4. Division results of prediction units (K133–K139)



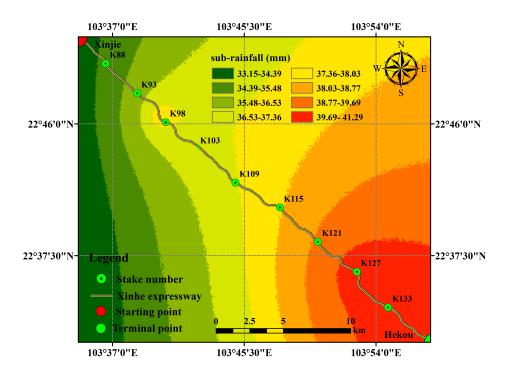


Fig. 5. Interpolation results of secondary rainfall for June 5, 2014

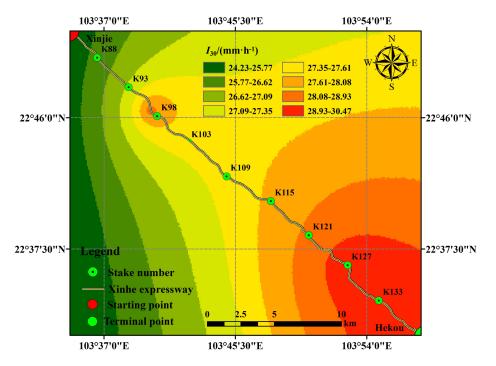


Fig. 6. Interpolation results of I30 for June 5, 2014



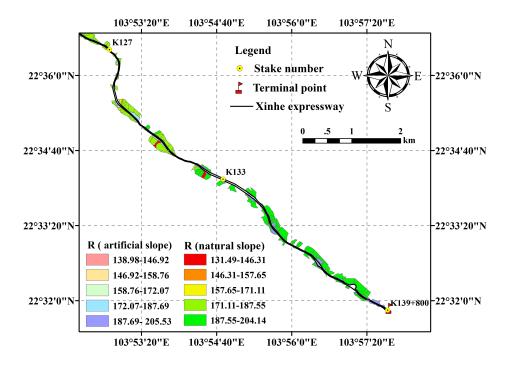


Fig. 7. Spatial distribution map of rainfall erosivity factors (K127–K139+800)

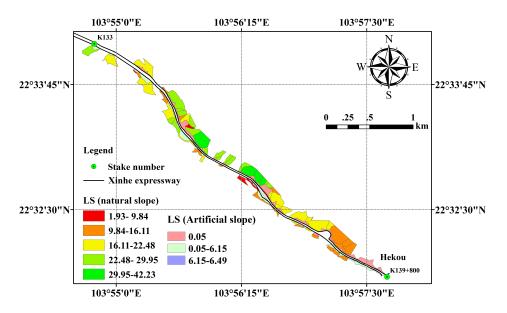


Fig. 8. Spatial distribution map of topographic factors (K134-K139)



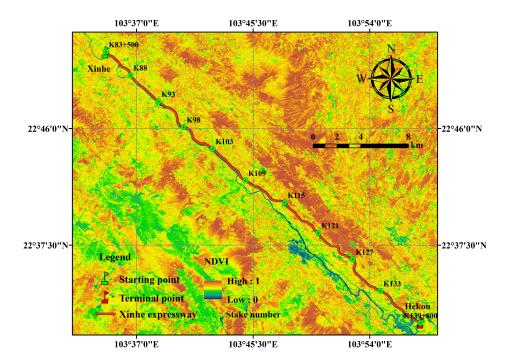


Fig. 9. Vegetation coverage along Xinhe Expressway

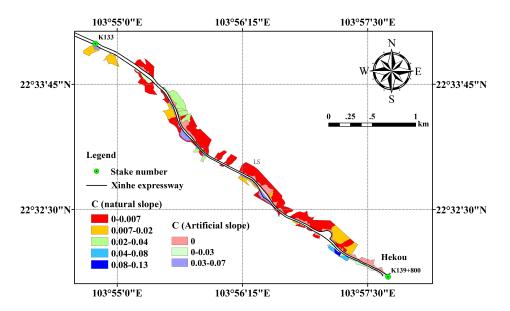


Fig. 10. Spatial distribution map of cover and management practice factor



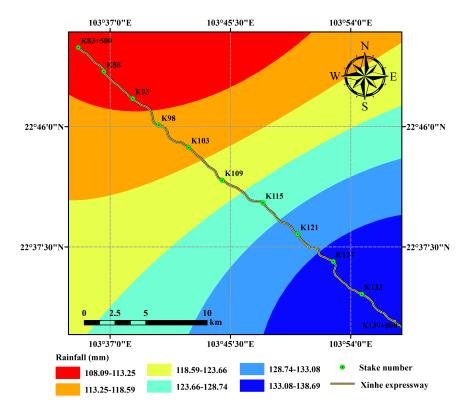


Fig. 11. Rainfall interpolation results under 20-year return

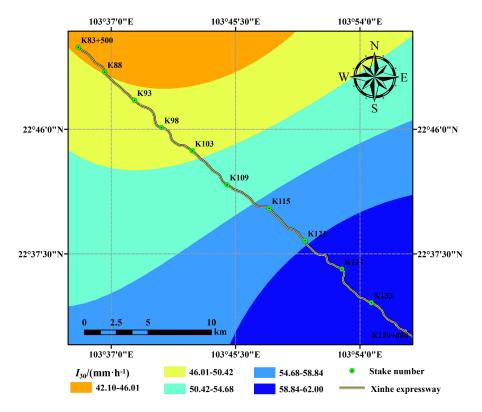


Fig. 12. Rainfall intensity interpolation results under 20-year return

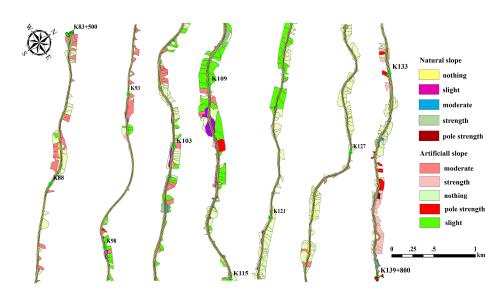


Fig. 13. Risk analysis of soil and water loss under 20-year rainfall conditions

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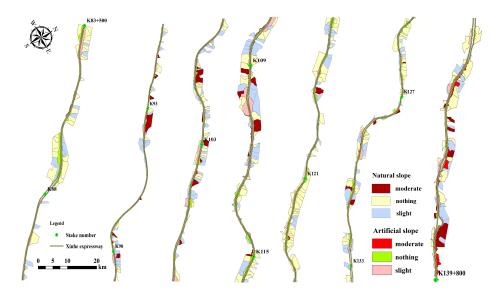


Fig. 14. Risk analysis of soil and water loss under 1-year rainfall amount

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