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Input factors that should be considered when running a regional soil erosion model at a catchment scale - An application in Scotland

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Input factors that should be considered when running a regional soil erosion model at a catchment scale – An application in Scotland

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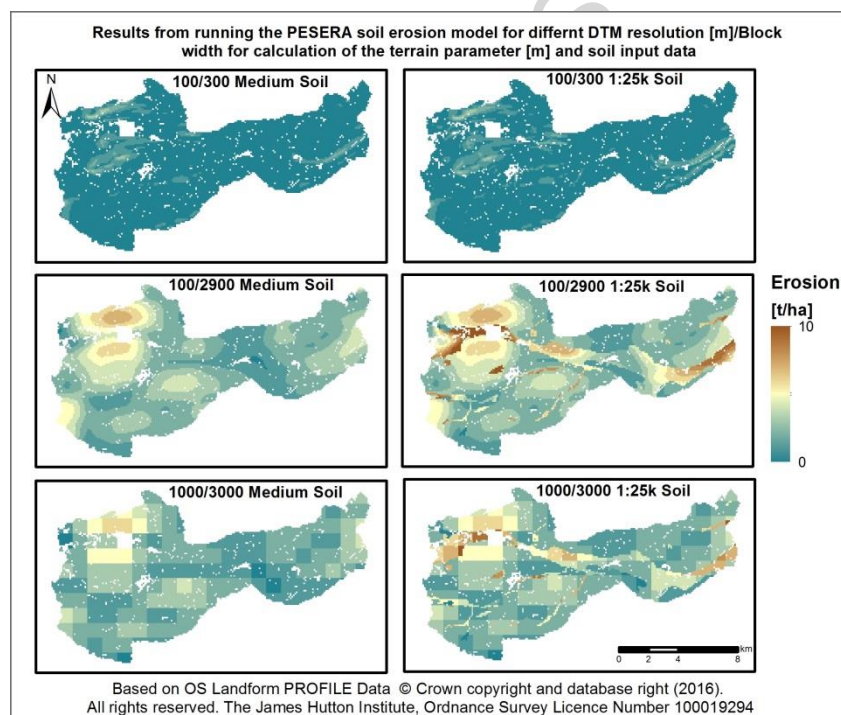
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Key Words: Soil erosion modelling; PESERA, DTM; Scale; Grid size; Cambisols, Podzols, Stagnosols, Fluvisols

Graphical Abstract



Highlights

- We investigated the impact of changing the resolution of the input parameters
- We ran the model for different soils data and DTM resolutions
- Changing block size impacts the spatial distribution of modelled erosion risk
- Model shows greater sensitivity to a scalar change in block size than in grid size
- Changing the resolution of the DTM and the resolution of the soils data interact

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