

Dear Niels Hovius and Wolfgang Schwanghart,

Thank you for accepting our manuscript for publication in ESurf. We have made the final changes that were requested, as outlined below.

With kind regards,

Judith Zomer

Title: The title has been changed to 'A tool for determining multiscale bedform characteristics from bed elevation data'.

Line 80: Has been changed to: 'The weights  $w_j$  are defined by a tricube weight function as...'

Line 224f: The following statement has been added to line 230: '*For large data sets, computational time can become relevant. Application of the tool to the data sets in this study required a computational time of approximately 600 seconds without parallel processing and around 200 seconds using parallel processing.*'

Fig 1-3: '*Flow direction*' has been added to the arrow indicating the flow direction.

Fig 2-5: Letters have been added to the figures and the corresponding captions have been changed as well as the text where necessary to include the letters when referring to a specific panel.

We also changed Matlab to MATLAB throughout the manuscript.

Concerning the code on github: The two proposed changes will be in the next release of the software.