

## Final Response to Editor

Thank you for the extra time given for the submission. Below are all the minor corrections made according to your suggestions.

***P2, L55: “GoPro recording”: What is this? Maybe explain.***

GoPro “video” recording - added

***P5, L105: “LSPIV calculation on the freeware...”: Maybe rephrase to “the LSPIV calculations were performed using the freeware...”***

ok

***P5, L108: “resolution 1689x1345”: in DPI?***

1689x1345 “pixels” - added

***P5, L117: “this used to be necessary for the Fudaa software”: Unclear.***

Added – “This used to be necessary for the Fudaa software, however the more current version can now handle jpeg and tiff colored formats.”

***P6, L133: Maybe rephrase section heading to “LSPIV calculations using Fudaa” or similar.***

ok

***P6, L143: Flow velocity not shown in Fig. 2C. Please give reference to this Figure when describing IA.***

corrected

***P6, L145: “search area”: Please give reference to SA in Fig. 2C.***

ok

***P9, L180: “four surges”: It would be good to denote S1 to S4 in brackets here.***

ok

***P9, L186: “because of the surges variable rheology”: maybe rephrase to “because of the variable rheology of the surges”.***

ok

***P14, L236: “17:23:10”: please indicate once that these are time steps.***

Added: “time of occurrence”

***P19, L287: “strong correlation with” or “strong relation to”.***

“strong relation to”

**Figure 1: This may be rearranged to fit a rectangle. Position of the study site in A should be enlarged or/and labelled in the Figure.**

There is no easy way to fit the figure as a rectangle, the position is enlarged.

**Figure 2: All images have no orientations and scales. IA and SA in C should be plotted with thicker lines, the reference to the colors in the legend should be deleted.**

ok

**Figure 3: Images have no orientations and scales. Even though these can be estimated when looking at Fig. 1, it may be convenient to indicate at least the orientations of the cameras in this Figure.**

Orientations are added

**Figure 6: Images have no scales.**

Scales are added

**Figure 8: B has no scale. In A, please reconsider the y-axes labelling (“m/m”, “depth”). In the caption, it reads “along the long profile of the grid in Fig. 7”. Please specify what is meant here.**

Scale is added. “Depth (m)” is now just “m”.

Changed to “traveling down the long profile of the grid in Figure 7”

**Figure 9: Please denote A to D and explain the four graphs in the caption separately.**

ok