Interactive comment on “Use of laser-scan technology to analyse topography and flow in a weir pool” by P. E. Dresel et al.

Anonymous Referee #1

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The primary focus of the manuscript, based on the title, data presented, and conclusions is based on the method, not the implications of the data themselves. For this reason, I think this would work better as a Technical Note publication rather than a research article.

If the paper is modified into a technical note, than the authors could remove some of the project background because it isn’t necessary for the method demonstration. Instead, it would be helpful if the authors discussed any similar uses of laser data. It appears that there have been some similar studies but nothing (that I found) that directly addresses the issue of drought and ephemeral streams. The manuscript would be stronger if it included the greater framework and explained how their work differs from similar studies.

I suggest the addition of a more detailed rationale earlier in the paper. While it’s clearly a useful technique in the studied region, the implications for quantifying low flow and ephemeral waters are much bigger. That’s worth highlighting.

Figure 6 nicely illustrates how this method can expand the data currently available from weirs.

The discussion about the sheet-pile extension and leakage are not needed if the paper is focused on the methodology. Instead, that discussion could be included as an application of the method.

Potential papers to consider:
