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Interactive comment on "Technical Note: How image processing facilitates the Rising Bubble Technique for discharge measurement" by K. P. Hilgersom and W. M. J. Luxemburg

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We would like to thank referee #2 for his comments. We picked out the most important ones for a short reaction.

With respect to Table 1, the referee states that the results are not dealt with in an objective way. We admit our wrong word choice for the header of the right column: instead of a 'percentage error', we present here a deviation from the average discharge measured. The deviation is also what we want to present, since this gives a figure of the consistency of the results. We assumed a constant discharge in the short time that

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the several measurements were taken (within two minutes), which according to the acoustic measurement device appeared the case (the measured discharge remained almost constantly at 46.6 l/s).

The use of the Valeport meter at the rising limb of the discharge peak was very unfortunate with hindsight. Like we argued in the article, measurements with a propeller current meter are time consuming, which was mainly the reason for us to perform these measurements only once. The moment of taking these measurements should have been before or after the 'ordered' increase in discharge. Due to time constraints, we made the unfortunate choice of doing the measurements during the discharge peak. Like the referee states, the word 'verify' (page 8511, line 2) does not represent what is actually done. What we meant is that a reference measurement was taken for the acoustic discharge measurement device. Although this measurement was at an unfortunate moment, we felt that we should include this data.

Taking into account the comments of referee #1 as well, we will introduce a Discussion Section. A major part of what is currently written in the Recommendations Section will move to this new section, resulting in a smaller Recommendations Section that is more appropriate to conclude the article.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 8499, 2011.