Hydrol. Earth Syst. Sci. Discuss., 11, C5218–C5219, 2014
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Hydrology and Earth System Sciences
Discussions

Interactive comment on "Technical Note: Surface water velocity observations from a camera: a case study on the Tiber River" *by* F. Tauro et al.

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Received and published: 20 November 2014

We thank Reviewer 1 for the interesting comments.

With the present quick reply, we would like to emphasize some of the motivations for this technical note. Upon publication of the other Reviewers' reports, we will be glad to reply to every comments in the final response letter.

LSPIV was launched 10 years ago and we consider it a fascinating approach with tremendous potential to improve traditional hydrological observational methods and to provide unprecedented data. It is low cost, easy to implement, and, most importantly, nonintrusive.

However, the available literature tends not to present many of the challenges related to LSPIV practical implementation in environmental settings. Such difficulties are perhaps among the reasons why LSPIV is still largely excluded from most of the standard environmental monitoring protocols.

We have recently proposed a modified LSPIV configuration (we are glad that Reviewer 1 appreciated our work) that aims at alleviating some of the issues associated with field measurements. In this framework, this technical note addresses the urgent issue of real-time monitoring during a flood event. While LSPIV is naturally suited for such measurements, its implementation is nontrivial and, certainly, a crucial topic for experimental hydrologists.

In our opinion, this technical note is timely, whereby it addresses the important issue of nonintrusive and real-time flood monitoring. Even if this work does not aim at proposing definitive experimental resolutions, we respectfully disagree with Reviewer 1 that the material presented here is not sufficient for publication as a technical note.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 11883, 2014.