

## ***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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We thank Reviewer 2 for the interesting comments. We gladly acknowledge that many of the issues raised by Reviewer 2 on the reliability of LSPIV were among our main motivations behind this work. We will be happy to answer each comment in detail in the final response to the Reviewers and to carefully address His/Her constructive suggestions in the revised version of the article.

However, we respectfully disagree with His/Her assessment on the content that a technical note should present. In our opinion, a technical note should not necessarily yield a completely refined novel methodology, but also critically analyze the state of knowledge through original experiments, propose technical advancements important to the

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field, and lay the foundation for future research. Here, we implement a novel LSPIV configuration to enable environmental monitoring in an extremely challenging condition, that is, during a flood event at night. While our findings are not conclusive, they are central to raise important questions on the potential, limits, practical feasibility, and accuracy of LSPIV in natural water systems.

As interestingly commented by Reviewer 2, here, we try to raise a crucial question: is LSPIV appropriate for monitoring large scale environments in critical settings? While we do not certainly propose a conclusive answer, we expect that our experimental application will steer technological and methodological efforts in remote environmental monitoring toward optical systems.

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