Responses to Reviewers' Comments

Reviewer 2:

This manuscript is a resubmission of the manuscript with ID:1215920. The latest version appears significantly improved. However, some issues remain to be addressed.

- The Title needs to become more compact. A suggestion is "Large-Scale Particle Image Velocimetry to measure streamflow from videos Recorded from Unmanned Aerial Vehicle and Fixed Imaging System".

Response: Thanks for the comment. The title has been revised according the Reviewer's suggestion.

- Some references need to be added (see specific comments).

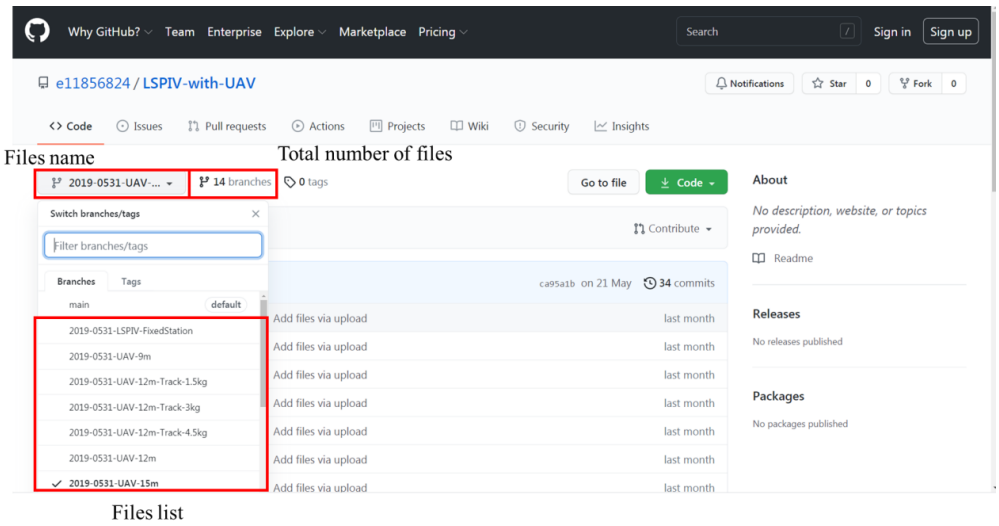
Response: Thanks for the comment. The references recommended by Reviewer have been included in the text and "References".

- There are some typos (see specific comments).

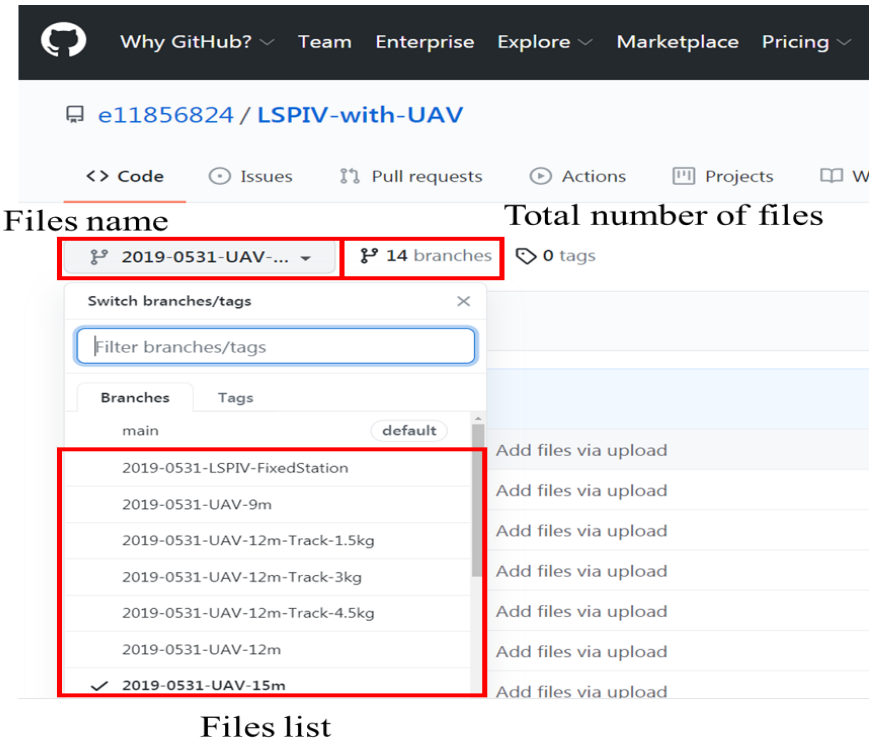
Response: Thanks for the comment. The typos have been revised.

- A web page has been created, but the dataset has not been uploaded to it to become publicly available. Please upload the dataset (video or frames) and a metadata file.

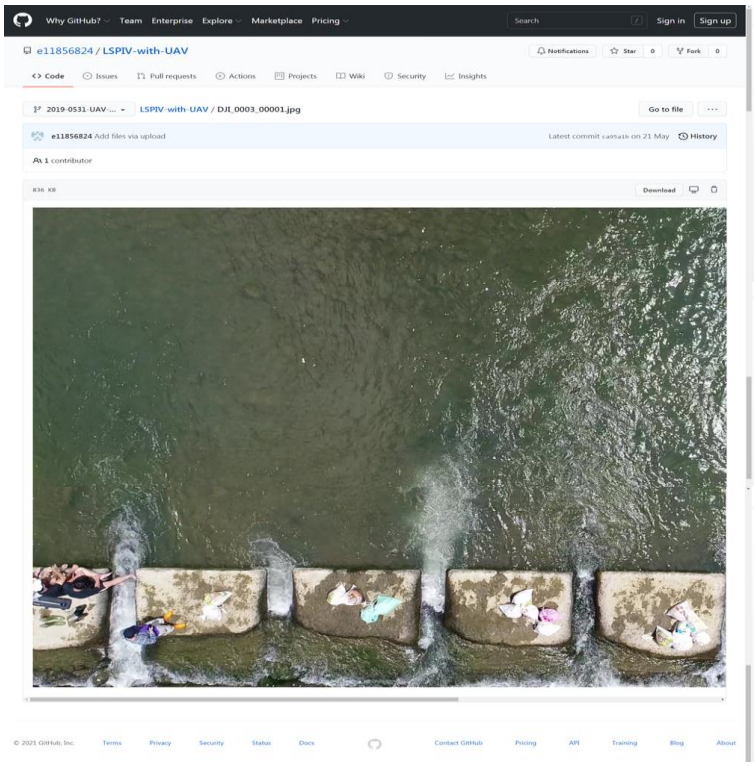
Response: Thanks for the comment. The dataset (frames) has been included in the website, https://github.com/e11856824/LSPIV-with-UAV/. The demonstration of information disclosure webpage is shown as below.



Attached Figure 1. Screenshot of information disclosure webpage.



Attached Figure 2. Locally enlarged view of Figure 1.



Attached Figure 1. Image in information disclosure webpage.

SPECIFIC COMMENTS

Location: "... large-sale particle image velocimetry ..."
Comment: It should be "large-scale", not "sale".
Response: Thanks for the comment. The typo has been revised. (Page 2, lines 52-54)
"Among the available optical techniques, large-scale particle image velocimetry (LSPIV) obtains remote surface flow measurements based on digital images obtained from a fixed location [2,35]."

Location: "... yielding much better agreement with the results of field measurements."
Comment: Add text and reference "... yielding much better agreement with the results of field measurements. Various researchers [49, 50] have suggested employing Monte Carlo simulations to both estimate the uncertainty of the obtained LSPIV estimations and eliminate the subjectivity on the selection of the LSPIV algorithm parameters (e.g. interrogation area size, size of the contrast-limited adaptive histogram equalization, etc.)."
Response: Thanks for the comment. The sentences have been added in the revised manuscript. (Page 2, lines 78-84)

REFERENCES
49. Le Coz, J., Renard, B., Vansuyt, V., Jodeau, M., & Hauet, A. (2021). Estimating the uncertainty of video-based flow velocity and discharge measurements due to the conversion of field to image coordinates. Hydrological Processes, 35(5), e14169.
50. Rozos, E., Dimitriadis, P., Mazi, K., Lykoudis, S., & Koussis, A. (2020). On the Uncertainty of the Image Velocimetry Method Parameters. Hydrology, 7(3), 65.
Response: Thanks for the comment. The references recommended by Reviewer have been included in the text and "References".