

Interactive comment on “Delineating wetland catchments and modeling hydrologic connectivity using LiDAR data and aerial imagery” by Qiusheng Wu and Charles R. Lane

Anonymous Referee #2

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This manuscript was well thought out, well organized and well written. In the United States the regulatory status of wetlands is currently linked to connectivity to streams so the topic of this manuscript is important. The conceptual model presented for wetland fill and spill seems very useful. The approach used in the reported study is sound and findings support the conclusions reached.

Specific comments:

The last paragraph of the introduction is a summary of the study findings. It should be modified to reflect study goals instead.

Flow routing was performed using D8 algorithm (line 213) but often it has been found

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that D-infinity algorithms provide more realistic flow characteristics.

When reporting numerical results consider the errors associated with the underlying model used to produce the values. The number of nonzero digits should generally reflect the uncertainty. For example see lines 347 and 348 with values reported with 4 significant figures whereas it is known that these estimates have substantial uncertainty. Also in tables with data reported with up to 8 significant digits (Tables 1 to 4).

Figure 7 needs to be reworked. Labels on figure are very difficult to read

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