Drinking Water
Engineering and Science
Discussions

Interactive comment on "A pipe network simulation model with dynamic transition between free surface and pressurized flow" *by* J. Fernández-Pato and P. García-Navarro

J. Fernández-Pato and P. García-Navarro

jfpato@unizar.es

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- The journal was chosen by CCWI2013 organizing committee, not by the authors.

- Coupling of free-surface and pressurized flow has been treated before by several authors using different mathematical models for free surface and pressurized flows (as in the Bourdarias and Gerbi 2007 article, cited by the referee). The Preissmann slot method is a way to address this problem, in which a single equation system (free surface) is solved. We consider that our contribution is adding this feature to a full shallow water simulation model that is able to compute properly sub-critical, super-critical and trans-critical flow.

- The results presented in section 6 attempt to be illustrative examples of more realistic applications to pipe networks, but it could be considered as validation test cases by comparing them with the original article ones.

- Some more references will be added for non-specialists.

- A table will be added providing units for all the magnitudes in the text.

- All the technical corrections suggested by the referee will be taken into account.

- The language will be reviewed.

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