Hydrology and Earth System Sciences Discussions

Interactive comment on "Channel network identification from high-resolution DTM: a statistical approach" *by* G. Sofia et al.

G. Sofia et al.

giulia.sofia@unipd.it

First of all, we wish to thank Referee #2 for his consideration and review of our manuscript. Referee #2 raised interesting issues, and this helped us in improving and clarifying the work. We tried our best to address the raised issues.
Five are the main topics indicated by the referee #2:
1. The manuscript presents serious problems in the use of English language;
2. The methodology is not well exposed and should be better clarified;
3. The objective of the work should be more clearly exposed and related to the scientific context. It is especially necessary to explicit the difference of this work comparing to others (Tarboton and Ames, 2001; Molloy and Stepinski, 2007; Thommeret et al.,

C5081

2010; and Tarolli and Dalla Fontana, 2009);
4. Some technical parts of the manuscript could be drastically resumed;
5. No comparison is made with other methods of channel network delineation actually available for to the scientific community.

Our responses to the reviewer's specific comments are provided in detail on the attached .*pdf file.

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/7/C5081/2011/hessd-7-C5081-2011-supplement.pdf

————————————————