

Interactive comment on “Impact of improved Sea Surface Temperature representation on the forecast of small Mediterranean catchments hydrological response to heavy precipitation” by Alfonso Senatore et al.

Anonymous Referee #1

Received and published: 22 July 2019

Review of manuscript “Impact of improved Sea Surface Temperature representation on the forecast of small Mediterranean catchments hydrological response to heavy precipitation”, Southern Italy” (hess-2019-345) by Senatore et al.

The manuscript is well written and clearly shows the potential benefit of improved SST information for precipitation and streamflow forecast with WRF and WRF-Hydro. It should therefore be considered for publication in hness.

Minor comments page 1: It should be mentioned in the abstract that the dynamical

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downscaling of the global forecasts are done with the WRF model.

Page 12, line 20-30: it could be mentioned that the hydrographs discussed here are obtained with the offline WRF-Hydro forced with the WRF downscaled forecasts.

Figures Fig. 1: the caption in the elevation legend of panel i) is very small. Couldn't the figure be reorganized so that the size of panel i) looks similar to the size of panels h) and i) in Fig. 2 ?

Figs. 8 and 16. The caption size should be increased. Also, the barbs density should be reduced and the barbs size increased.

Figs. 13 and 19. Caption size should also be increased here.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-345>, 2019.

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