Hydrology and Earth System Sciences

Open Access

Discussions

EGU

Interactive comment on "Development of a monthly to seasonal forecast framework tailored to inland waterway transport in Central Europe" *by* Dennis Meißner et al.

M. Zappa (Referee)

massimiliano.zappa@wsl.ch

Received and published: 15 June 2017

Dear authors,

This paper well fits in the special issue on sub-seasonal to seasonal forecasting.

As much as I like the setup used here, I have the impression that not enough information is given on how LARISM was calibrated and validated. The authors should extend on this.

C1

The authors argue that some deviations between simulated and observed discharge are owed to snow-processes. In such a complex chain with hydropower, lakes, larger rivers, big groundwater bodies and floodplains it is in my opinion very difficult to attribute the deviation they observe to the consideration of snow processes only. They should have a look on how the headwaters are simulated in order to make a robust assessment in this respect.

The analyses are very interesting. I wonder whether snowpack could be also used as indicator for the statistical approach.

The manuscript is clearly lacking of a proper discussion section. Please pick up some of my comments in a discussion section. For instance Olsson et al. (2016) presented a rather similar research question, but beside citation, no further effort is done here to see if the findings of the two studies agree.

I attach the commented PDF as supplement

Best regards
Massimiliano Zappa

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/hess-2017-293/hess-2017-293-RC1-supplement.pdf

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2017-293, 2017.