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Geoscientific Model Development Discussions

Interactive comment on "Shyft v4.8: A Framework for Uncertainty Assessment and Distributed Hydrologic Modelling for Operational Hydrology" *by* John F. Burkhart et al.

Anonymous Referee #2

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Dear authors,

you provide here a very nice and tempting product for improving the implementation of hydrological forecasting in case of (hydropower) production.

The technical description of the tool is of highest quality and many formulations are very close to the one of commercial software.

What I miss here is science. You show no numbers, no benchmarks, your referencing on ensemble forecasting for (hydropower) applications is poor and you don't mention a tool like FEWS (Werner et al., https://www.sciencedirect.com/science/article/pii/S1364815212002083), which is

a commercial software dealing with similar target customers.

The applications you show are nicely selected, but not convincing as you don't present numbers to support your findings.

To summarize, as a software advertisment, this can be accepted as it is, as a scientific contribution to forecasting for (hydropower) optimization this need to be rejected.

See also the commented PDF (mostly requirements for sound citations)

Please also note the supplement to this comment:
https://gmd.copernicus.org/preprints/gmd-2020-47/gmd-2020-47-RC2-supplement.pdf

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