

Interactive comment on “An efficient training scheme that improves the forecast skill of a supermodel” by Francine Schevenhoven and Frank Selten

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We would like to thank the reviewer for his helpful comments. We revised our manuscript and will give a reply to the reviewer’s comments below.

My main criticism is that the method (section 2) is very short and lacking in detail. Although I can see how to do it, it is not clear exactly how the supermodel weights are calculated or the criteria by which convergence is determined. Given the brevity of the article a bit more technical detail is warranted.

The supermodel weights are calculated just by counting how often a certain imperfect model is chosen during the CPT training. For example, if a model is chosen 30% of

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the time, then the corresponding weight will be 0.3. Convergence is obtained when during the CPT training every time step the supermodel is the model that is closest to the truth. This perfect convergence does not happen with our examples. The majority of time steps the supermodel is chosen, but sometimes the other imperfect models are closer to the truth. However, the obtained weights do not significantly change after certain time.

More comments on technical details can be found in the reply to reviewer Guannan Hu.

[Interactive comment on Earth Syst. Dynam. Discuss., doi:10.5194/esd-2017-6, 2017.](#)

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