Hydrol. Earth Syst. Sci. Discuss.,
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Hydrology and Earth System Sciences
Discussions

Interactive comment on "Seasonal drought predictability and forecast skill in the semi-arid endorheic Heihe River basin in Northwestern China" *by* Feng Ma et al.

Anonymous Referee #2

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The authors evaluated the predictability and forecast skill of meteorological and hydrological drought in the Heihe River basin based on the dynamic forecast from NMME and a hydrologic model DTVGM. The drought prediction performances for different lead time and seasons were assessed. Overall, the manuscript is well crafted with clear structures. Some grammatical errors exist and need careful proofreading. I have some minor comments.

Page 6, line 119-120: Do you use some downscaling techniques in generating the daily hindcast based on monthly data? Suggest to give some details.

Page 6, line 135: The NSE value for the MHRB is 0.52. This may lead to some uncer-

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Discussion paper

tainties in the simulated streamflow or hydrological drought and thus the performance evaluation. Suggest to mention/discuss the potential uncertainties.

Page 9, line 187-188: The authors showed that the meteorological predictability was higher in autumn and winter (than summer and spring). Any explanation/reason for this?

Figure 4: The caption is not quite informative. Suggest to give details to describe the Figure.

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