Hydrology and Earth System Sciences Discussions

Interactive comment on "Evaluation of bias-correction methods for ensemble streamflow volume forecasts" *by* T. Hashino et al.

T. Hashino et al.

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Response to Anonymous Referee #1:

We appreciate the constructive comments of the reviewer. In particular, it was noted that we used the terms "significant skill" or "no skill" to describe the results for measures of skill, and suggested that we use a bootstrap technique to assess this quantitatively. In response, we have made the following changes for a revised manuscript:

1. We have added a paragraph in Section 4.1 that explains how to interpret the value of the skill score. This paragraph also defines the terms "skillful forecasts" and "no skill" as we use them later in the paper.

2. As recommend, we utilized a bootstrap technique in our revised manuscript to derive a threshold value for "statistically significant" skillful forecasts. Figures 8 and 9 now

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show this threshold value, and Sections 5.2 and 5.3 discuss the statistical significance of the sample skill scores.

Although these revisions do not alter the paper's main findings or conclusions, we believe they provide valuable quantitative information illustrating the sampling uncertainty of the skill measure used and its statistical significance.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 3, 561, 2006.

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