

## ***Interactive comment on “Evaluation of a probabilistic hydrometeorological forecast system” by S. Jaun and B. Ahrens***

### **Anonymous Referee #1**

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(1) In the page 1848 and in the paragraph 5, it is not easy to consider that the coupling of PREVAH with COSMO-LEPS provides probabilistic hydrological forecasts in terms of a hydrological EPS. The paper should be paid attention to check the equal probability and the total uncertainty (Golding, 2000). In order to check these characteristic, we must use the Talagrand diagram or the spread skill relationship (Houtekamer 1993).

(2) RPSS is a measure of the multi-category probabilistic forecast relative to a reference forecast. The ROC and the Reliability diagram are always considered in the ensemble forecasts. Also another score more general than RPSS, which is Continuous Rank Probability Score (CRPS)(Hersbach 2000). CRPS is also quantified to have CRPS\_pot (score for the resolution and the lead time) and the reliability.

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