

CORRIGENDUM

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Spread-skill plots in [Abaza et al. \(2013\)](#) are in error because the RMSE is compared to the average standard deviation instead of the square root of the average variance. Indeed, two different and inconsistent methodologies have been used over the last few years in the meteorological and hydrological literature to compute the average ensemble spread: in some cases, the square root of the average ensemble variance is used; in other cases the average of the ensemble standard deviation is computed instead. The second option, used in [Abaza et al. \(2013\)](#), is incorrect and may lead to false diagnostics of underdispersion. The correct Eq. (5) and Fig. 6 are given below:

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N \frac{1}{n-1} \sum_{k=1}^n (x_{k,i} - \bar{x}_i)^2}. \quad (5)$$

We regret having contributed to the existing confusion about spread-skill plots. The correct Fig. 6 shows lesser underdispersion than before: results that are more consistent with the other assessment tools used in [Abaza et al. \(2013\)](#), namely, rank histograms and reliability diagrams. Interpretations in [Abaza et al. \(2013\)](#) remain valid despite the error.

Please also notice that in Figs. 10–13 of [Abaza et al. \(2013\)](#), the global forecasts stand on the left side and the regional ones stand on the right side.

REFERENCE

Abaza, M., F. Anctil, V. Fortin, and R. Turcotte, 2013: A comparison of the Canadian global and regional meteorological ensemble prediction systems for short-term hydrological forecasting. *Mon. Wea. Rev.*, **141**, 3462–3476, doi:10.1175/MWR-D-12-00206.1.

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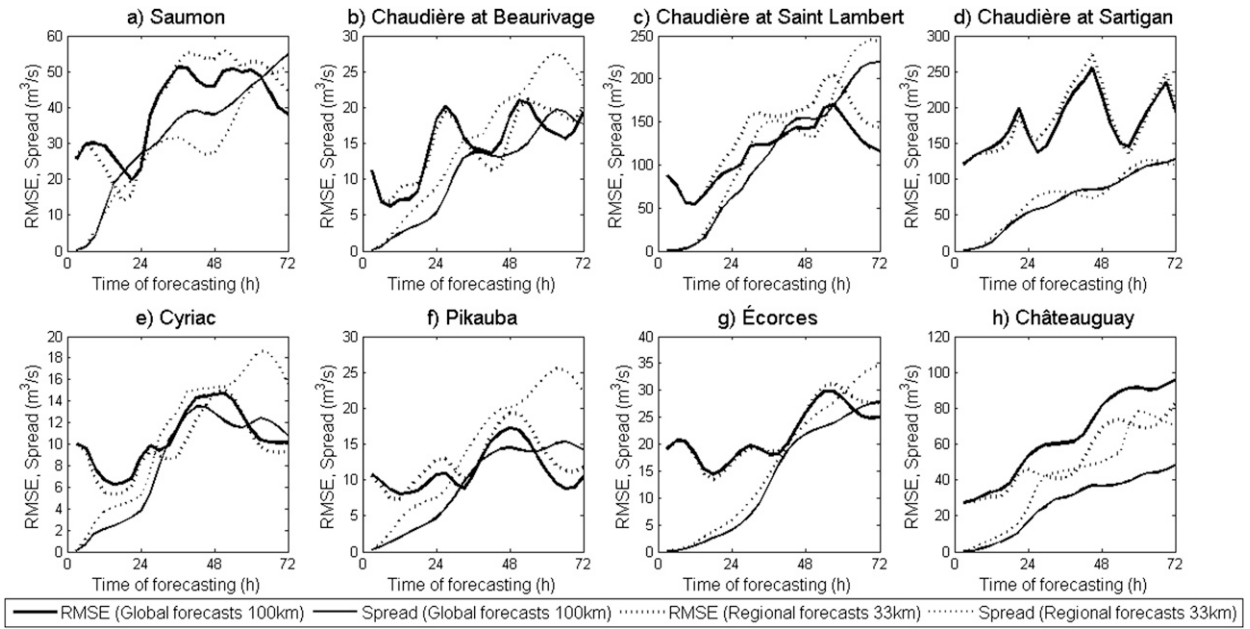


FIG. 6. Evolution of RMSE and spread of H-EPS as a function of time of forecasting.