

Interactive comment on “Seasonal prediction of winter extreme precipitation over Canada by support vector regression” by Z. Zeng et al.

Z. Zeng et al.

whsieh@eos.ubc.ca

Received and published: 13 September 2010

We thank the reviewer for his helpful comments.

“The reader should benefit from the insertion of some references on studies about applications of nonlinear methods to the analysis of precipitation behaviour, as in cases of more standard NN models.”

Three new references will be added by inserting after sentence 2 in the Intro. Section, parag.3:

Neural networks have been applied to downscale seasonal mean precipitation from global climate models (Tolika et al. 2007) and to infer the influence of climate indices

C2267

on seasonal mean precipitation (Pasini and Langone, 2010), while a wavelet-neuro-fuzzy method has been developed for daily precipitation forecasts (Partal and Kisi, 2007).

Tolika, K., P. Maheras, M. Vafiadis, H. A. Flocasc, and A. Arseni-Papadimitriou, 2007: Simulation of seasonal precipitation and raindays over Greece: a statistical downscaling technique based on artificial neural networks (ANNs). *International Journal of Climatology*, 27, 861-881.

Pasini, A., and R. Langone, 2010: Attribution of precipitation changes on a regional scale by neural network modeling: a case study. *Water*, 2, 321-332.

Partal, T., and O. Kisi, 2007: Wavelet and neuro-fuzzy conjunction model for precipitation forecasting. *Journal of Hydrology*, 342, 199-212.

—

“Table 1: please, use one decimal digit in the "Mean" column for all the rows”.

The table will be corrected in the revised manuscript.

—

The reference Haupt et al. (2008) will be changed to Haupt et al. (2009).

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 3521, 2010.