

Interactive comment on “A discrete wavelet spectrum approach to identifying non-monotonic trend pattern of hydroclimate data” by Yan-Fang Sang et al.

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The authors stated that they developed and applied a method called DWS to identify non-monotonic trend and its significance. As it is very well known in time series where there exists a non-monotonic trend, times between failures alternate between increasing and decreasing trend (cyclic) or have a decreasing trend, no trend, and then increasing trend. Taking in to consideration this nature of a non-monotonic trend, I personally believe that a simple visual inspection could help identify the presence of non-monotonic trend. I do not think following the process depicted in Fig. 1 is necessary at all. As to testing the level of significance, the well-known Anderson-Darling test rejects the null hypothesis in the presence of both monotonic and non-monotonic

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trends.

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