Nonlinear Processes in Geophysics Discussions

Nonlin. Processes Geophys. Discuss., author comment AC1
https://doi.org/10.5194/npg-2021-37-AC1, 2022

Reply on RC1

Olivier Delage et al.

Author comment on "Empirical adaptive wavelet decomposition (EAWD): an adaptive decomposition for the variability analysis of observation time series in atmospheric science" by Olivier Delage et al., Nonlin. Processes Geophys. Discuss., https://doi.org/10.5194/npg-2021-37-AC1, 2022

The errors related to the English language have been corrected as well as the font errors.
The equations have been separated from the text and the article has been rewritten to improve clarity.
A second time series was analyzed using the EMD and EAWD methods to validate the relevance of the method.
Additional figures have been added to show the effectiveness of the EAWD method in overcoming the mode mixing problem caused by EMD.
These figures show that the frequency supports of certain IMFs restored by the EMD can overlap and how these same frequency supports are perfectly disjoint in the case of the EAWD.