

Interactive comment on “Automated model optimisation using the Cylc workflow engine (Cyclops v1.0)” by Richard M. Gorman and Hilary J. Oliver

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The manuscript Automated model optimisation using the Cylc workflow engine (Cyclops v1.0) provides a method for objective optimization of source-term coefficients in NWP models, with an application to wind-wave modeling. The method fills in a long-standing gap in wave model development, whereby typically tuning of source-term coefficients has been made in an ad hoc, trial-and-error-based manner, with high time costs and sometimes questionable effectiveness. The proposed method bridges that gap, being potentially a landmark contribution to improving the quality of wave forecasts at operational centers.

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The manuscript is well-written and engaging, concise, and clear. I recommend the paper be accepted after minor revisions. A list of suggestions to that end will be provided in a separate cover.

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