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**Interactive
comment**

Interactive comment on "Extracting statistically significant eddy signals from large Lagrangian datasets using wavelet ridge analysis, with application to the Gulf of Mexico" *by* Jonathan M. Lilly and Paula Perez-Brunius

Anonymous Referee #2

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The manuscript provides a review of a previously developed method for extracting eddy signal from Lagrangian dataset, and then introduces new developments and an important application to the large Gulf of Mexico drifter data set.

I found the paper interesting, well written and well organized. My only comment is that the summary part of the paper is in my opinion too extended and too detailed. My suggestion is to shorten that part and to highlight more clearly the new developments that address unphysical sign transitions and false positives, introducing statistical significance of the results.

My overall recommendation is that the paper should be published with minor revisions.