

Editor' Comments, Author Responses and Manuscript Changes

We would like to thank the reviewer for his/her careful reading and constructive comments on the manuscript. These comments significantly improved the manuscript. We have responded to the comments made by the reviewer in this document. We hope that the reviewer and the editor agree with the changes we have made to make the manuscript be suitable for publication.

In the following, black indicates the comments by the editor; blue is our response.

Anonymous referee #1

For final publication, the manuscript should be accepted as is

Thank You. No response required

Anonymous referee #2

I thank the authors for their careful revision of the manuscript and for providing a detailed point-by-point response to the comments raised during the first review.

The revised version has improved in several respects, particularly through clearer methodological descriptions, a more explicit acknowledgement of the methodological limitations, and an improved presentation of the observational analyses. Many of my previous comments have been adequately addressed, and the manuscript now more effectively highlights the value of its unique multi-platform dataset for investigating submesoscale eddies on the western Australian continental shelf.

I still believe that the dynamical characterization of some individual eddies could be more precise. However, given the extensive and diverse observational datasets brought together in this study, I acknowledge that the authors have had to strike a balance between detailed analyses of individual cases and a broader synthesis of the complete dataset.

In my opinion, the revised manuscript is now suitable for publication.

Technical point:

The authors should improve the figure labels and overall presentation to ensure that all figures are clearly readable in the final published version. For example, the labels and text in Figure 8 are difficult to read and should be enlarged and homogenized for better clarity.

Thank You for the comments. We have updated Figures 5, 6, 8 and 12.