

***Interactive comment on “Assimilation of SLA along track observations in the Mediterranean with an oceanographic model forced by atmospheric pressure” by S. Dobricic et al.***

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Reply to anonymous referee #1

We would like to thank the reviewer for his valuable comments and especially for correcting our mistakes. Here are the replies:

- (i) This mistake is corrected.
- (ii) The reference Oddo et al. 2009 is added for the nesting.
- (iii) This typo is corrected.

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(iv) This mistake is corrected.

(v) This is corrected, too.

(vi) We would like to thank the reviewer for noticing that the comment on the impact of high frequency winds was missing. In the revised version of the manuscript we try to justify our assumption that this impact is less important by the fact that it would not impact the final result that the highest accuracy of the analyses is obtained by the model with the full atmospheric forcing and unfiltered observations. (Discussion, the third paragraph) (vii) Figures 4 and 5 are merged and we have extended the description of the differences. In this way they are closer and can be more easily compared. We have kept the different panels in order to emphasize that the two sets of RMS of residuals are calculated with respect to different observations with and without the filtering. In the revised manuscript we explain this in the first paragraph of Section 3.2.

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