

Interactive comment on “Numerical modelling of sediment transport in the Adriatic Sea” by A. Guarnieri et al.

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I am very thankful for the interest Dr. Harris showed in our manuscript and for all the suggestions and constructive comments she offered. Some of the points of discussion proposed have been approached also in the comments and replies to the other referees, and the other ones will be taken into account and addressed as well in the final version of the manuscript. I believe that the main issue of discussion - almost completely omitted in the first version of the paper - is the comparison with Dr. Harris' implementation of the ROMS model in the same domain and period. The omission of the citation and comparison to the work of Harris' 2008 was obviously a major one. Fortunately this incident came out during the open discussion so that the final version of the manuscript will benefit from the comparison of the different set-ups and main

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results which, however, I believe to be rather similar. The bibliography proposed in comment number 2 will also be very useful for further considerations on the different set-ups and choices of the parameters of the models. I found as well comment number 3 very useful, especially in the perspective of future work. For what concerns the present situation, as we have pointed out also to referee #1, our interest was on fine sediments. However, in order to have a more comprehensive sediment model the inclusion of features that will allow to simulate also the very high near-bottom concentrations will be necessary, and being already aware of previous experiences of similar efforts will be a very good starting point. In conclusion we want to thank Dr. Harris for her very useful suggestions and comments offered. We will acknowledge them in the next version of the paper and we are sure that the manuscript will be very much enriched by these inclusions.

Interactive comment on Ocean Sci. Discuss., 11, 1391, 2014.

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