

Interactive comment on “Characterization of bottom sediment resuspension events observed in a micro-tidal bay” by Manel Grifoll et al.

Anonymous Referee #2

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The manuscript is focused on the causes of resuspension events at Alfacs Bay and compare the results of the model with near-bottom turbidity observations. The application of the model may be useful for the area of study but various revisions need to be done to improve the quality of grammar and figures. It is hard to read the paper in its current state.

Specific comments: Line 28: Replace “convey” by “transports” Line 34: Finally, “the growth of” harmful species Line 38: In coastal areas, remove “of fate of” ; replace “pattern” by conditions. Line 39: “In” with “as a function” of ; Is “Sedimentological” a term that is used ? Line 40 “Such as” by “driven by” wind -waves Line 44 “reworking” by transports” Line 46 “at the water”, by “in the water” Line 53: This is a suggestion to move “Thus, Alfacs Bay...” line after the end of Line 49. Line 60 “Driven” by driving

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Line 69 “Has” by Have Line 69: Improve this entire line after “Synchronous optical ..” for better understanding. Line 83: is composed “of” Line 83: Use technical terms “sandy mud” ?

Line 97: corresponds to the two months of and remove “correspond to summer conditions” Figure 1 “ Remove the background grid in Figure d, label the colorbar Line 122: Citations should be in a chronological order. Repetition of text in section 2.3. Carefully edit. Replace regular grid with curvilinear grid. Line 128: What are the time steps in two models. Line 132 10m3 → correction Line 136 as a function Line 147: What do you mean by eddy profiles are scaled in wave boundary layer following and iterative processes? No need to write the equations if they are being not used in explaining the results. The citations are sufficient.

Line 157 What is M-Sc. Line 161 : October ? Line 164 : 3rd of August Line 233: Replace differentiate with different. Missing labels on Figure 2 and caption Figure 5: It is hard to see the magenta dot, use a symbol for locations.

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