

ID	Editor's comment	Authors' response
EC#1	In a few places you refer to “southern” winds and similar. It is better to use “southerly” if the wind is from the south (meteorological convention) and “southward” if the current is towards the south (oceanographic convention). “southern” is better used if the location of the measurement is in the south.	All texts regarding directions of winds and currents have been corrected toward meteorological and oceanographic conventions.
EC#2	Line 122. “using Leap Frog scheme combined Laplacian filter” is not very clear. I think at least “using a Leap Frog scheme combined with a Laplacian filter” but maybe more is missing. If this scheme is not in Marsaleix et al., 2008, then I think another reference is needed.	One reference (Marsaleix et al., 2012) have been added to the revised manuscript and text in lines 123-124 was modified in the revised manuscript for a clearer explanation.
EC#3	Lines 122-123. “K-epsilon turbulence closure scheme, and pressure gradient Jacobian scheme to describe the physics within the model.” Are these schemes in Marsaleix et al., 2008 or is another reference needed?	The schemes were already explained in Marsaleix et al., 2008.
EC#4	Lines 205-210. I think there needs to be some more definition of VMSC_ref. Perhaps “free” is misleading. Please be explicit. [At least I suppose there must be some form of boundary condition for the model to run. Is there any wind or tidal forcing? Lines 223, 220-221 and section 3.2 suggest “yes”. But then why do the EASTSEA and VMSC_ref series for U and V differ in Figure 7? This is discussed in the Discussion section 5 where the VMSC_ref open boundary conditions and OIV are suggested as causes. That rather implies that the wind and tidal forcing of EASTSEA and VMSC_ref are the same;	We thank the Editor for a valuable comment. The “free run” text has been removed from the revised manuscript to avoid misunderstanding. Indeed, the forcing (wind, tide, river) were used in all simulations of VMSC_ref as well as in EASTSEA run. It has been explained in lines 129-134 of the revised manuscripts. So VMSC_ref run is not free run. We are sorry for the improper use of

	VMSC_ref is not really a “free” run.]	the term.
EC#5	Line 356. “latter days” is unclear. Please be explicit with a date that relates to figure 11.	The text in lines 357-359 has been modified toward the Editor’s comment. Labels (a-f) have been added for all subplots in Figure 11.
EC#6	Line 435. Better “. . . data; however, large discrepancies . . .”?	The text has been modified toward the Editor’s comment