

Comments on the revised manuscript:
“The dynamics of İzmir Bay under the effects of wind and thermohaline forces”
by Erdem Sayın and Canan Eronat

The revised manuscript is an improvement compared to the original version. The introduction and aim of the study is now clear and more detailed description is given in the results and discussion section. The research will contribute to a better understanding of the İzmir Bay dynamics and therefore I suggest that the manuscript be accepted with some minor technical (grammatical) corrections. In my opinion, the manuscript can benefit from proofreading for a better understanding. Some examples of improvement are given below.

Examples for improvement:

Line 10 : replace “Instead a two layer” with “Instead of a two-layer “

Line 14: replace “independent from” with “independent of”

Examples of sentences that could be rephrased:

Line 44 : The renewal time, which is important from the biological and chemical point of view, considering the water exchange through the vertical section between İzmir Bay and Aegean Sea is found by 46 and 29 days for the winter and summer case, respectively.

Line 118: wind intensity from 2000 up to now monthly and yearly for

Line 121: in the model experiments testing which wind intensity enough to simulate the strong wind condition

Line 126: prescribed at the boundary and relaxed during rest model integration time

Line 135: the other group with the wind-driven circulation.

Line 167: Comparison winter patterns with the patterns

Line 232: has an anticyclonic character in case northerly and westerly winds

Line 251: The prognostic modelling approach can be a future challenge for the modelling of İzmir Bay with adding more meteorological information inside.