

Dear professor John M. Huthnance

Many thanks for the points on "Some aspects of the deep abyssal overflow between the middle and southern basins of the Caspian Sea" by Javad BabagoliMatikolaie et al. Some points are very useful for us to improve our study. We try to answer and address one by one each comments as follows:

Technical corrections.

Page 2 line 10. Delete "the" at end. [It tends to suggest that all shelves have along-slope currents].

Corrected.

Page 3

Line 7. Better ". . Caspian Sea that has only been touched on in the"?

Corrected.

Line 11. Better ". . overflow. This paper is divided . ."

Corrected.

Line 16. "investigating" -> "of".

Corrected.

Page 7 line 23. Omit "At the beginning . . pointed out that"

Corrected.

Page 8.

Lines 14-15. Mention of Denmark Strait seems a bit odd here but you refer to it again later. If you want to keep ", similar . . of the DS" then I think you should give a reference here.

Corrected.

Line 17 near end. "on" -> "in"

Corrected.

Line 22. Omit "Over the years"

Corrected.

Page 10 line 19. ". . isopycnal is . ." (space between words)

Corrected.

Page 13.

Line 4. ". . (2003); they used . ."

Corrected.

Line 8. ". . affecting the flow dynamically."

Corrected.

Line 12. ". . can be shown by numerical model simulation."

Corrected.

Line 18. ". . behaviour of the vorticity"

Corrected.

Page 14 line 7. Add space between superscript "-1" and "based".

Corrected.

Page 15 line 15. ". . concentrate on the third layer . ."

Corrected.

Page 16 line 11. "1). Thus  $r_b = \dots$ );  $r_e = \dots$  (transect III) based on"

Corrected.

Page 17.

Line 18. ". . from the cape . ."

Corrected.

Line 20 end. ". . spring (May; Fig. 14)."

Corrected.

Line 31. "in" -> "of" ; ",," after RD should be full size.

Corrected.

Line 32. ". . respectively). Fig. 14 indicates separation . ."

Corrected.

Line 33 & Page 18 line 1. ". . cape, more pronounced in November. Considering . . cape, the Stern criterion . ."

Corrected.

Page 18 line 10. "Absheron" (spelling).

Corrected.

Page 19.

Line 4. ". . basins' . ."

Corrected.

Line 6. ". . discussed . ."

Corrected.

Line 17. Delete 2nd "Absheron"

Corrected.

Line 21. ". . its geometry and the upper surface of the dense overflow . ."

Corrected.

Line 26. Delete ",," before "(" and after ")"

Corrected.

Page 20.

Line 13. "1", "2" should be subscript.

Corrected.

Line 14. Delete "as"

Corrected.

Line 17. "section"

Corrected.

Line 22. ". . which is the approximate . ."

Corrected.

Line 23. ". . basin). Then if . ."

Corrected.

Page 21 lines 12-13. “. . in oceanic contexts without ADCP data, for example the Persian Gulf . . CTD data in the Hormuz”

Corrected.

Page 23.

Line 10. “. . Caspian Sea basins’ flushing times because they are very important . .”

Corrected.

Line 11. Delete “as”

Corrected.

Line 16. “. . that oxygen is carried from . .”

Corrected.

Line 25. “. . sea bed in Absheron . .”

Corrected.

Line 32. “activities at the bottom . .”

Corrected.

Page 24.

Line 1. “. . oil drill holes on Absheron . .”

Corrected.

Line 2. “through” -> “over”

Corrected.

Line 4. Add space before “(“

Corrected.

Line 5. “substantial” -> “significant”? Delete “and climate”? “of” -> “or”

Corrected.

Line 6. Delete “rates”

Corrected.

Lines 6-7. “. . Based on the path of the deep flow and the eddy formation near SefidRud Cape, it can be concluded . .”

Corrected.

Line 10. “. . like sea level . .”

Corrected.

Line 11. Better “. . raised regarding the effect . .”

Corrected.

Line 12. “Based on section 2.1, it is mentioned that the” -> “At present”?

Corrected.

Line 13. Delete “it is accepted that”

Corrected.

Line 15. “. . volume of water in the deep overflow . .”

Corrected.

Line 16. “words, warming probably . .”

Corrected.

Line 22 end. “. . (b) The map” (add space after “”).

Corrected.

Page 25

Lines 15-16. Better “. . vorticity of the trapped current over Absheron sill.”

Corrected.

Line 17. “. . m<sup>3</sup> of water per year in this abyssal flow . .” (add space after superscript 3)

Corrected.

Line 18. “. . which is of the same order . .”

Corrected.