

Review of: **The Fully Nonlinear Stratified Geostrophic Adjustment Problem, Version 3**

by *A. Coutino and M. Stastna*

The third iteration of this manuscript is much improved by the addition of theory delineating linear and nonlinear effects. I still caught a number of errors in the text that could have been eliminated with a final careful read-through prior to resubmission. I may not have caught all the remaining discrepancies and I suggest that the authors go over the text again very thoroughly. I recommend publication after the corrections listed below are made.

**Comments:**

1. Page 10, line 2: In Equation 10, the factor multiplying  $B_{xx}$  on the right-hand-side should be  $H^2/(\pi^2 Fr^2)$  i.e.  $Fr^2$  in the denominator and not  $Ro^2$ .
2. Page 21, line 27: it is the *change* in potential energy that may be zero, not the potential energy. This sentence needs to be rewritten for clarity.
3. Page 23, bottom of page: Sentence beginning on line 2 and ending on line 5 belongs in the caption for Figure 12.
4. Page 25, the caption of Figure 12 is wrong. Please use the text on Page 23. The colors are reversed: the kinetic energy *inside* is red and *outside* is blue.
5. Page 26, material from middle of line 14 to middle of line 19 was retained from version 2 of the manuscript and should be taken out since it is not relevant to the discussion. Also, no need to cite Sundermeyer and Lelong here.