

**Title:** A Nonlinear Generalised Boussinesq Equation  $((2+1)\text{-D})$  for Rossby-Khantadze Waves

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**MS No.:** egosphere-2025-123

**MS type:** Regular paper

**Response to Referee 1:**

Dear Reviewer 1,

We sincerely appreciate the time and effort you have taken to evaluate our manuscript (egosphere-2025-123) and provide constructive feedback. By keeping your all comments in our mind, we have made the following changes in our manuscript:

In Pages 1-2, lines 40-51 in the introduction, the following addition “Such slow long-period planetary waves have phase velocities of the order of 1–100 m/s, which is around the...” have been made alongwith some additional references.

Also, the more specific references have been added by keeping in mind the referee comment, namely Khantadze et al. etc.

The writing in many places have been changed to create clarity.

In support of interpretation, we have improved the figures and text.

**Response to Referee 2:**

Dear Reviewer 2,

Thank you for your kind suggestions. By keeping in mind your suggestions, the following addition have been made in the manuscript:

The step-wise following changes have been made:

1. The font size of figure labels has been increased, the legend has been added for blue and red curves. The normalization is already added in the text in p#6, lines 218-219.
2. In Figure 2, the font size for tick labels has been increased and also the axes labels have been made.
3. The abstract has been rewritten more concisely.
4. Throughout the manuscript, the English is improved in the text.

Best Regards,

Authors