A linear assessment of barotropic Rossby wave propagation in different background flow configurations

by

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Comments to the Editor: (the text of the reviewer is in italic)

We appreciate the new feedback regarding our manuscript. We have added a couple of sentences in that paragraph to highlight that

- 1. a very broad jet is stable
- 2. The latitude of the jet has a destabilizing effect (as in the case with  $\sigma = 7^{\circ}$  (stable in the tropics) and  $\sigma = 5^{\circ}$  (unstable everywhere))
- 3. a narrow jet becomes unstable faster at small wavelengths (or larger wavenumbers)
- 4. The wavenumber of the most unstable mode is associated to a constant wavelength, connecting to the previous paragraph.

We hope that this clarifies better the analysis. Alternatively, it is possible for us to add a figure about the growth rate of the most unstable mode, but we feel that such an additional figure will make the paper only unnecessary longer.