Interactive comment on “Quasi-hydrostatic equations for climate models and the study on linear instability” by Robert Nigmatulin and Xiulin Xu

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I lost my original comment here so will keep it short. Try doing some realistic comparisons to data as I did with QBO, see Fig 1 and the following citation


No progress has been made since Holton/Lindzen did the DiffEq formulation years ago, and all you are doing is going deeper and deeper without a simplifying ansatz.

Interactive comment on Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2020-146, 2020.
Except for a phase shift between 2005-2015, the QBO cycle is synchronized to the lunar nodal (draconic) cycle. The anomalous phase shift was first pointed out in 2016 with the appearance of a doublet (in yellow) that resynced the nodal cycle.

**Fig. 1.**

CDC QBO anomalies (1950:2020)