

Review of

Replicating the Hadley Cell edge and subtropical jet position disconnect in idealized atmospheric models

Molly Menzel et al.

General

This is my second review of this work, where the authors employ a model hierarchy approach to examine the disconnect between interannual variations of the position of the subtropical jet and the edge of the Hadley cell — showing that this disconnect can be reproduced in an idealized dry GCM. The authors have appropriately addressed my concerns and I recommend the work for publication. A few minor comments and suggestions are listed below.

Comments by line number in the tracked changes version

- 7 Indeed, the usage of ‘accuracy’ in the context of an idealized model is problematic. But ‘sufficient’ here is obscure. Sufficient in what aspect? Perhaps ‘sufficiently **realistic** climatological basic state’?
- 8 not clear what are the ‘features’ being referenced. The metrics?
- 19 Add space: CO₂ (Davis...
- 60 same as in line 7
- 67 analyses
- 101 treating ε and χ as two separate parameters in $\varepsilon\chi \sin \phi$ when in effect $\varepsilon\chi$ is a constant seems redundant, as both ε and χ have the same influence on T_{eq} .