

Interactive
Comment

***Interactive comment on* “Cluster analysis of midlatitude oceanic cloud regimes – Part 2: Temperature sensitivity of cloud properties” by N. D. Gordon and J. R. Norris**

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There is a balance that needs to be struck between providing sufficient information in each article to make it stand on its own, while not to be repetitive. We have gone over the two papers to make sure that there is no unnecessary and repetitive information.

We believe the reviewer’s perspective that changes in the dynamical background will obviously drive cloud changes in a future climate is actually a minority view within the community. The study of Bony et al. (2004), which concluded that the thermodynamic component of cloud change dominates the dynamical component in the large-scale average, has been particularly influential. Whether Bony et al. correctly identified the true

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thermodynamic response rather than a response confounded by “hidden” dynamics is another matter, and we agree with the reviewer that changes in dynamics may be more important element of cloud feedbacks, and we state this in the conclusion.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 1595, 2010.

ACPD

10, C3186–C3187, 2010

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