

Towards a consistent dynamics in a GCM perturbed physics ensemble

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tion.net perturbed physics ensemble model runs, and compare them with the scaling properties of the observed records at different spatial scales. We explore the viability of this approach to ensure that the perturbed physics ensemble comprises only models that are physically consistent with the observed climate.

Eichner J.E. et al. (2003): Power-law persistence and trends in the atmosphere: A detailed study of long temperature records. *Physical Review Letters* 68.046133