

Interactive comment on “Bayesian calibration of the Thermosphere-Ionosphere Electrodynamics General Circulation Model (TIE-GCM)” by S. Guillas et al.

Anonymous Referee #1

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In this paper the authors reported a procedure for calibrating a complex computer simulation model having uncertain inputs and internal parameters, with application to the NCAR TIEGCM. The simulated magnetic perturbations are compared with observations to demonstrate the possibility to calibrate the amplitude and phase of the tides in the TIEGCM. This study may open a new way to improve the model.

minor comments:

1. what's the units for the measurements and simulations in Figure 2?
2. Why the parameters θ_1 (left) and θ_1 and 2 (right) in Fig 3 were cut off at certain values?

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Interactive comment on Geosci. Model Dev. Discuss., 2, 485, 2009.

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