



Tuning a model to a time series of data

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We extend the method of Annan and Hargreaves (Tellus A, 2004) to the case of tuning the climate of a chaotic model subject to slowly varying external forcing. We illustrate the method with a forced version of the Lorenz model, showing how the forcing terms can be recovered from a time series of observational data. The computational efficiency of this method raises the prospect of directly tuning GCMs to recent time series of climatological observations.