



Grid point bias correction of climate models: remaining problems and suggested solutions.

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A number of different studies have shown that, given the availability of adequate observational data, histogram equalization methods can be effectively used to remove the time independent component of error (bias) in climate model output. Furthermore the correction extends to the mean, variance and higher orders of the intensity distributions. Uncertainty in the results, however, has been shown to originate from factors such as: the length of the time interval of the observational period; the time scale chosen for the statistics, for example daily rather than monthly; and the fact that dynamically linked variables, such as temperature and precipitation, are corrected independently. Here we propose and test solutions to measure and, when possible, reduce these uncertainties.