



Criteria and metrics to evaluate space weather forecast models

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Many different models have been developed over the years that aim at predicting some aspect of space weather. The standard approach to evaluate the models is to use some statistics like root-mean-square-error, linear correlation, prediction efficiency, or skill score. These, measures may be used to judge model accuracy in the general terms, but in the case of real time operation there are additional aspects that need to be considered, such as sampling rate, temporal resolution, and prediction lead time. We will discuss these problems and other criteria or metrics which can objectively be applied to judge the performance of the models.