

## PREDICTABILITY OF A LARGE ATMOSPHERIC MODEL

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## INTRODUCTION

The future evolution of an observed atmospheric state is not predictable beyond a few days because of the inherent instability of the large scale atmospheric flows and nonlinear interactions among motions of different space and time scales. The theoretical upper limit for deterministic prediction is mainly determined by the growth rates of the most dominant instabilities and the mechanisms for equilibration of their amplitudes. Even a small uncertainty in any one scale grows with the characteristic growth rate for that scale and nonlinear interactions among different scales of motion help spread this unpredictability to all the scales present in the flow. For a simple barotropic fluid without the beta effect and without asymmetric forcing, Lorenz<sup>1</sup> showed that each scale of motion has its own range of predictability which is determined by its interaction with the neighboring scales and the level of energy in that scale. Determination of the limits of predictability for atmospheric motions is of great importance for weather and climate forecasting. Limits on our ability to make accurate weather forecasts at long range can arise either due to incomplete definition of the initial state of the atmosphere or due to incomplete knowledge of the physical laws governing the future evolution of the atmospheric states.

During the last 30 years a variety of models of atmospheric flows have been used to calculate the limits of predictability. One of the standard procedures to conduct such studies is to integrate the model with two nearly identical initial conditions and then to examine the growth of the small initial difference. We would refer to such studies as the *classical predictability studies*. The first such comprehensive study was reported by Lorenz<sup>2</sup> in which he examined the predictability of a 28 variable atmospheric model, and showed that the doubling time for small errors was about four days. Subsequently, several large atmospheric models, generally referred to as the general circulation models (GCMs), were used to calculate the growth characteristics of small initial errors. Charney *et al.*<sup>3</sup> have described the results of such integrations of the then available models of Smagorinsky<sup>4</sup>, Mintz<sup>5</sup> and Leith<sup>6</sup>. There were large differences among the estimates of the error doubling time for these three models. In each model a sinusoidal temperature error field was introduced in the initial conditions. The Leith model did not exhibit a consistent exponential growth of the initial error which underwent a transient oscillation for the first week and then levelled off at about seven days. In the Smagorinsky model, the error exhibited quasi-periodic fluctuations for the first two weeks. For very small amplitude of the initial temperature error field, the growth rate was small for the first 30 days after which an exponential growth rate of about 6-7 days was observed. The Mintz-Arakawa model results, which were considered to be more realistic because the pattern of error growth was consistent with the notion of exponential growth of a small 'linear' error field superimposed on the large scale mean flow, exhibited a doubling time of about five days. Since the root mean square difference between randomly chosen fields of Northern Hemispheric winter temperature fields is about 8°C, a doubling time of five days for an initial perturbation of 1°C would suggest a predictability limit of about two weeks.

These experiments showed a high degree of model dependence of the results of predictability calculations. This was partly because, in the early 60's, model development was still in its infancy. If similar experiments were carried out with the three state-of-the-art GCMs available today, the predictability characteristics would be far more similar for all the

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