1070-86-25　　　　　**Christopher Danforth*** (`chris.danforth@uvm.edu`), **Ross Lieb-Lappen**, **Nicholas Allgaier** and **Kameron D Harris**. *Dynamical Systems Approaches to Climate Prediction.*

Weather forecast models quickly diverge from observations as uncertainty in the initial state is amplified by nonlinearity. In contrast, Climate models typically drift apart due to uncertainty in the parameterizations required to make the model integration computationally feasible. Simple nonlinear models of atmospheric conditions will be used to describe recently developed techniques for extending the duration of useful simulations of the Earth's atmosphere, i.e. lengthening the shadowing time of the dynamical system. (Received December 13, 2010)