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The atmosphere is a fluid. As such, the idea of numerical weather prediction is to sample the state of the fluid at a given time and use the equations of fluid dynamics and thermodynamics to estimate the state of the fluid at some time in the future. The process of entering observation data into the model to generate initial conditions is called initialization.

# Numerical weather prediction - Wikipedia

The SIR model. The SIR model is one of the simplest compartmental models, and many models are derivations of this basic form. The model consists of three compartments– S for the number susceptible, I for the number of infectious, and R for the number recovered (or immune). This model is reasonably predictive for infectious diseases which are transmitted from human to human, and where recovery ...

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Vol.7, No.3, May, 2004. Mathematical and Natural Sciences. Study on Bilinear Scheme and Application to Three-dimensional Convective Equation (Itaru Hataue and Yosuke Matsuda)

#### **Contents**

by Nic Lewis Recently a new model-based paper on climate sensitivity was published by Kate Marvel, Gavin Schmidt and others, titled 'Internal variability and disequilibrium confound estimates of climate sensitivity from observations'.[1] As some readers may recall, I found six errors in a well-publicised 2016 paper by Kate Marvel and other GISS climate scientists onâ€!

### Marvel et al.'s new paper on estimating climate

What Causes the Greenhouse Effect? June 13th, 2015 by Roy W. Spencer, Ph. D.

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