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Oceanography and Atmospheric Sci. Meteorology

Research in Numerical Analysis Techniques for Fog Model Simulation.

Authors: [Russell C. Serbagj](#); [DIGITAL PROGRAMMING SERVICES INC WALTHAM MASS](#)

Abstract: A computer model is given for the numerical solution of the partial differential equations governing the transport and condensation processes of **clouds**. The models considered include two dimensional warm fog seeding, one dimensional cumulus **cloud** formation, and three dimensional warm fog **modification** by external heat sources. The finite difference techniques used and the stability criteria are discussed. A series of computer programs, data reduction techniques, and data analysis procedures are developed to recover pertinent data from various recording media. The meteorological data collected is reduced into a usable form such that computer studies relative to the growth, structure, and **modification** techniques of convective **clouds** can be made. (Author)

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