



Remote Sensing and Climate Modeling: Synergies and Limitations (Advances in Global Change Research)

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1 2 Michel M. VERSTRAETE and Martin BENISTON 1 Space Applications Institute, EC Joint Research Centre, Ispra, Italy 2 Department of Geography, University of Fribourg, Switzerland This volume contains the proceedings of the workshop entitled "Satellite Remote Sensing and Climate Simulations: Synergies and Limitations" that took place in Les Diablerets, Switzerland, September 20–24, 1999. This international scientific conference aimed at addressing the current and potential role of satellite remote sensing in climate modeling, with a particular focus on land surface processes and atmospheric aerosol characterization. Global and regional circulation models incorporate our knowledge of the dynamics of the Earth's atmosphere. They are used to predict the evolution of the weather and climate. Mathematically, this system is represented by a set of partial differential equations whose solution requires initial and boundary conditions. Limitations in the accuracy and geographical distribution of these constraints, and intrinsic mathematical sensitivity to these conditions do not allow the identification of a unique solution (prediction). Additional observations on the climate system are thus used to constrain the forecasts of the mathematical model to remain close to the observed state of the system.

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