

Research Topics in Aerospace

Ulrich Schumann *Editor*

Atmospheric Physics

Background — Methods — Trends



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Atmospheric Physics Background Methods Trends Research Topics In Aerospace

RJ Shavelson



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s Grand Challenges Previously published in Surveys in Geophysics Volume 38 Issue 6 2017 The articles Observing Convective Aggregation An Observational View of Relationships Between Moisture Aggregation Cloud and Radiative Heating Profiles Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large Scale Circulations A Survey of Precipitation Induced Atmospheric Cold Pools over Oceans and Their Interactions with the Larger Scale Environment Low Cloud Feedbacks from Cloud Controlling Factors A Review Mechanisms and Model Diversity of Trade Wind Shallow Cumulus Cloud Feedbacks A Review Structure and Dynamical Influence of Water Vapor in the Lower Tropical Troposphere Emerging Technologies and Synergies for Airborne and Space Based Measurements of Water Vapor Profiles Observational Constraints on Cloud Feedbacks The Role of Active Satellite Sensors and EUREC4A A Field Campaign to Elucidate the Couplings Between Clouds Convection and Circulation are available as open access articles under a CC BY 4.0 license at link.springer.com

Sustainable Aviation Futures Lucy Budd, Steven Griggs, David Howarth, 2013-12-18 This volume brings together some of the leading names in global aviation policy research to provide a unique and ground breaking synthesis of current debates on sustainable aviation

Fast Processes in Large-Scale Atmospheric Models Yangang Liu, Pavlos Kollias, 2023-12-19 Improving weather and climate prediction with better representation of fast processes in atmospheric models Many atmospheric processes that influence Earth's weather and climate occur at spatiotemporal scales that are too small to be resolved in large scale models They must be parameterized which means approximately representing them by variables that can be resolved by model grids Fast Processes in Large Scale Atmospheric Models Progress Challenges and Opportunities explores ways to better investigate and represent multiple parameterized processes in models and thus improve their ability to make accurate climate and weather predictions Volume highlights include Historical development of the parameterization of fast processes in numerical models Different types of major sub grid processes and their parameterizations Efforts to unify the treatment of individual processes and their interactions Top down versus bottom up approaches across multiple scales Measurement techniques observational studies and frameworks for model evaluation Emerging challenges new opportunities and future research directions The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

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