



Simulation of Indian summer monsoon processes using numerical models

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LAP Lambert Academic Publishing Mrz 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x16 mm. This item is printed on demand - Print on Demand Neuware - Most of the annual rainfall of the Indian subcontinent occurs during the summer monsoon season. Prediction of the monsoon rainfall is important due to its impact on agrarian economies of countries like India. Attempts are being made continuously to understand the physical and dynamical processes and to predict the monsoon on different spatial and time scales. During the last few years, high resolution numerical models based on non-hydrostatic dynamics have been developed along with the recent developments in high performance computing facilities. In the present study, the author has chosen to study the predictability of the onset phase, heavy rainfall events and the regional characteristics of the Indian summer monsoon using high resolution mesoscale and regional climate models. The outcome of this work should be useful to the students, scholars and researchers in the weather and climate prediction studies. 268 pp. Englisch.



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