

Atmospheric and Oceanic Mesoscale Processes



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Understanding, modeling and prediction of mesoscale processes in the atmosphere, ocean and environmental systems, have gained importance in the last decade or so.

This is because of the availability of more sophisticated observational systems, provided by technological innovations and more realistic simulations using advanced dynamical models. This volume contains many original findings on mesoscale processes in atmospheric and oceanic systems through mathematical modeling, numerical simulations and field experiments. These scientific papers examine and provide the latest developments on a range of topics that include tropical cyclones/hurricanes, mesoscale variability and modeling, seasonal monsoons and land surface processes including atmospheric boundary layer. This volume will be useful as a reading material in graduate level courses dealing with mesoscale systems, weather, climate, monsoon variability and boundary layer. The scientific community at large will find this book a useful addition to their personal and institutional libraries. Contributors include: Abhilash, S.; Alfieri, J. G.; Boyles, R.; Deb, S. K.; Dimri, A. P.; Eager, R. E.; Huang, C.-Y.; Krishnamurti, T. N.; Mohapatra, M.; Nagar, S. G.; Pattanaik, D. R.; Rakesh, V.; Rama Krishna, T.V.B.P.S.; Rama Rao, Y.V.; Sandeep, S.; Sanjeeva Rao, P.; Sharan, A.; Srinivas, C.V.; Straus, D. M.; Suresh, R.; Vaid, B. H.; Venkata Ratnam, J.

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