

The Impact of Trmm Data on Mesoscale Numerical Simulation of Super Typhoon Paka



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NASA Technical Reports Server (NTRS), et al., Zhao-Xia Pu

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 38 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This paper assesses the impact of TRMM Microwave Imager (TMI) derived surface rainfall data on the numerical simulation of Super Typhoon Paka (1997). A series of mesoscale numerical simulations is conducted for simulating Super Typhoon Paka during its mature stage by using the Penn StateNCAR MM5 model with initial conditions derived from the Goddard Earth Observing System (GEOS) global analyses with and without assimilation of the TMI surface rainfall data. Simulation results clearly demonstrate that the GEOS analysis with TMI rainfall data leads to a improved MM5 simulation of Typhoon Paka in terms of its intensity and kinematical and precipitation structures, since inclusion of the rainfall data into initial and boundary condition improves the storm environmental conditions (e.g. , moisture and circulation). Further improvement can also be obtained by incorporating TMI data with mesoscale bogus vortex information into the initial conditions. This item ships from La Vergne, TN. Paperback.

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