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A Model Simulation of Mesoscale convective systems in the Mei-Yu Front

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Mesoscale convective systems (MCSs) embedded within the Meiyu frontal system are the major producer for the heavy rain events. In this study, a numerical model simulation of MCSs within the Meiyu front (June 4-6 1998 case) using Penn State/NCAR MM5 is conducted. This case was observed during South China Sea Monsoon Experiment (SCSMEX) and produced heavy rain over southern Taiwan. The simulated results are used to diagnosis the formation and maintenance of the MCSs, especially the budget of moisture.