



Polarimetric observations of monsoon convective storms in south Taiwan

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Polarimetric radar has been used to observe the kinematic, dynamic and microphysical structure of severe convective storms in south Taiwan during the Southwest Monsoon Experiment (SoWMEX), May-June 2008. Two types of convective storms are studied, the ocean-originated and the land-originated, respectively. The gross features of these two types of convections showed pronounced differences in terms of convective vs stratiform precipitation area and the lightning density. The ocean-type storms showed more stratiform precipitation than convective and the land-type storms showed the opposite. The difference of this feature may be caused by the different dynamic processes related to the environment conditions.