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TRMM TMI/PR and DSD for Rain Retrievals over the Southeastern-Brazil region

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The DSD shape parameter properly set using a Massambani-Morales gamma distribution as inferred from local disdrometric measurements was applied to TMI and PR from a 5-year Tropical Precipitation measurement Mission (TRMM) satellite dataset in order to determine the spatial frequency of occurrence of gridded patterns of stratiform, convective and warm rainfall estimates, as well as the vertical radar reflectivity profiles and its relationship to the 85.5 and 37 GHz over the Southeastern region of Brazil. It was also computed the percentual frequency of occurrence for the height of maximum reflectivity and for the mean rain top for each patterns. It is also included the results of the DSD sensitivity using the radiative transfer model for the rainfall retrievals.