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Path Averaged Rainfall as a Single Point: Unfulfilled Potential or a Good Enough Convention?

Tuesday, June 25, 2019 2:50 PM (1 hour)

Most studies represent the rainfall measured by a CML as a single Virtual Rain Gauge (VRG) in the center of the CML path. We compare the 2-D rain retrieval performances of IDW-based spatial interpolation methods, where CMLs are represented either by one or multiple VRGs. A synthetic rain field was produced sampled by a synthetic CML network. If the size of a rain-cell is sufficiently larger than the average length of the CMLs, representing a CML by more than a single VRG, negligibly improves performances. However, if the dimensions are of the order of the length of the CMLs, using several VRG with the iterative algorithm, utilizing neighboring samples for path distribution assessment, improves performances.

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Session Classification: Posters with coffee and cake

Track Classification: HyMet CML overview presentations and posters (Day1)