

2nd response to the reviewers (EGUSphere-2026-1257)

Development of the TCWA2 Bulk Cloud Microphysics Scheme and Its Integration with a Dual-Polarization Radar Operator for Forecasting Applications

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We sincerely thank both reviewers for the constructive comments. We have revised the manuscript accordingly, including correcting the reference noted by Reviewer 1 and softening the Abstract, Key Points, Summary, and related discussion to consistently frame the MPAS real-case simulation as a proof-of-concept demonstration in response to the concerns raised by Reviewer 2. We also clarified several remaining limitations of the study, including those associated with RI parameterizations, particle-orientation assumptions, and radar-viewing geometry. Please refer to the corresponding revisions in the revised manuscript for further details.