Quality control of the Doppler on Wheels (DOW) mobile radar data

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The calibration and quality control of mobile radar data is uniquely challenging since, during field projects, deployment locations frequently change and there is no stationary infrastructure to provide continuous support. This presentation will overview the data calibration and quality control procedures used prior, during, and after field deployments used to ensure research caliber data from the dual-pol Doppler on Wheels (DOW) mobile radars. Collection of time series data, along with in-field calibrations and auxiliary data, allows for variations in the re-processing of the data, including offsets, navigation, clutter filters, beam indexing, and inclination corrections.