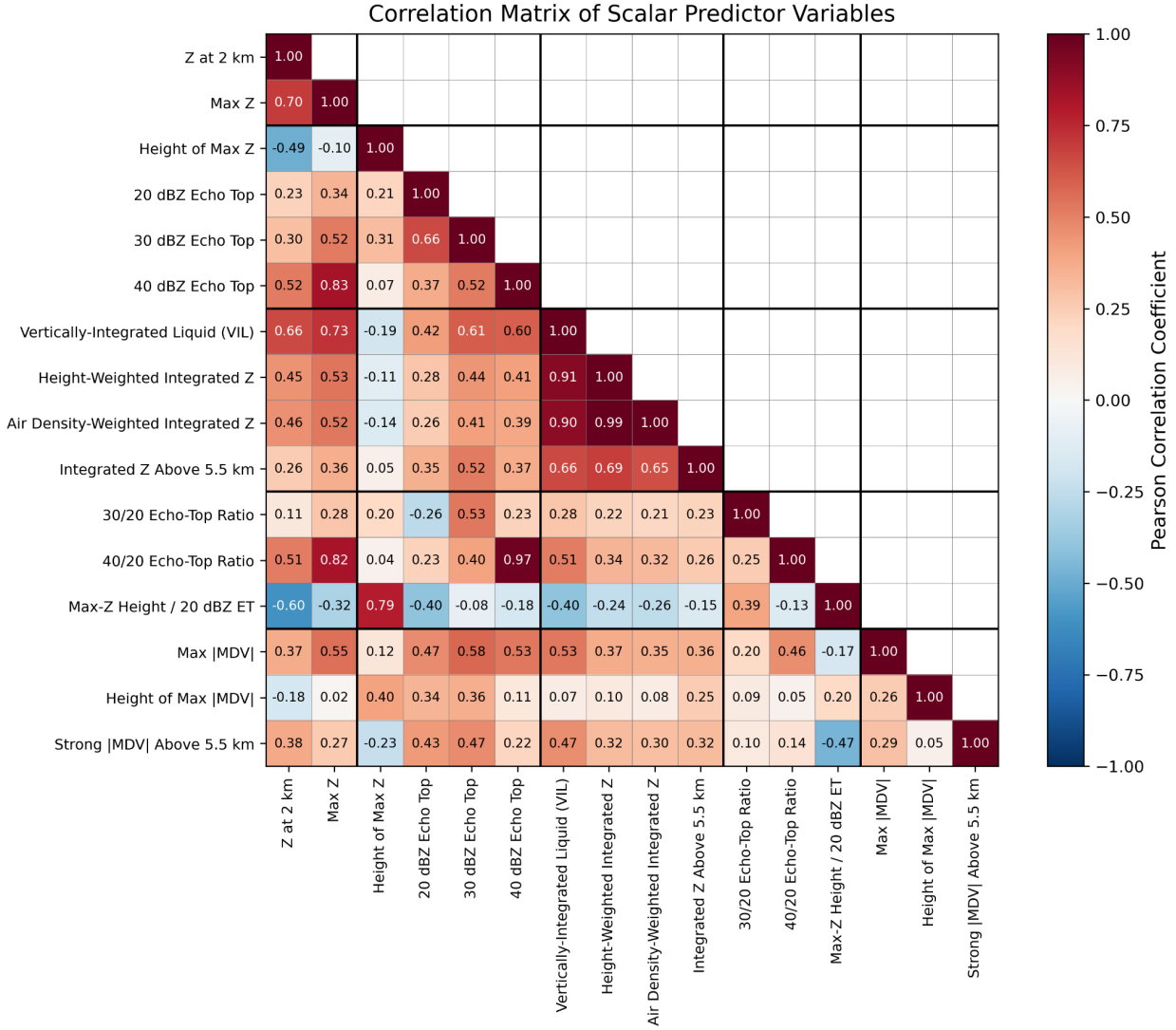


Figure S1: Pearson correlation matrix (pairwise correlations) for the scalar Z- and MDV-based features used in the RF experiments.

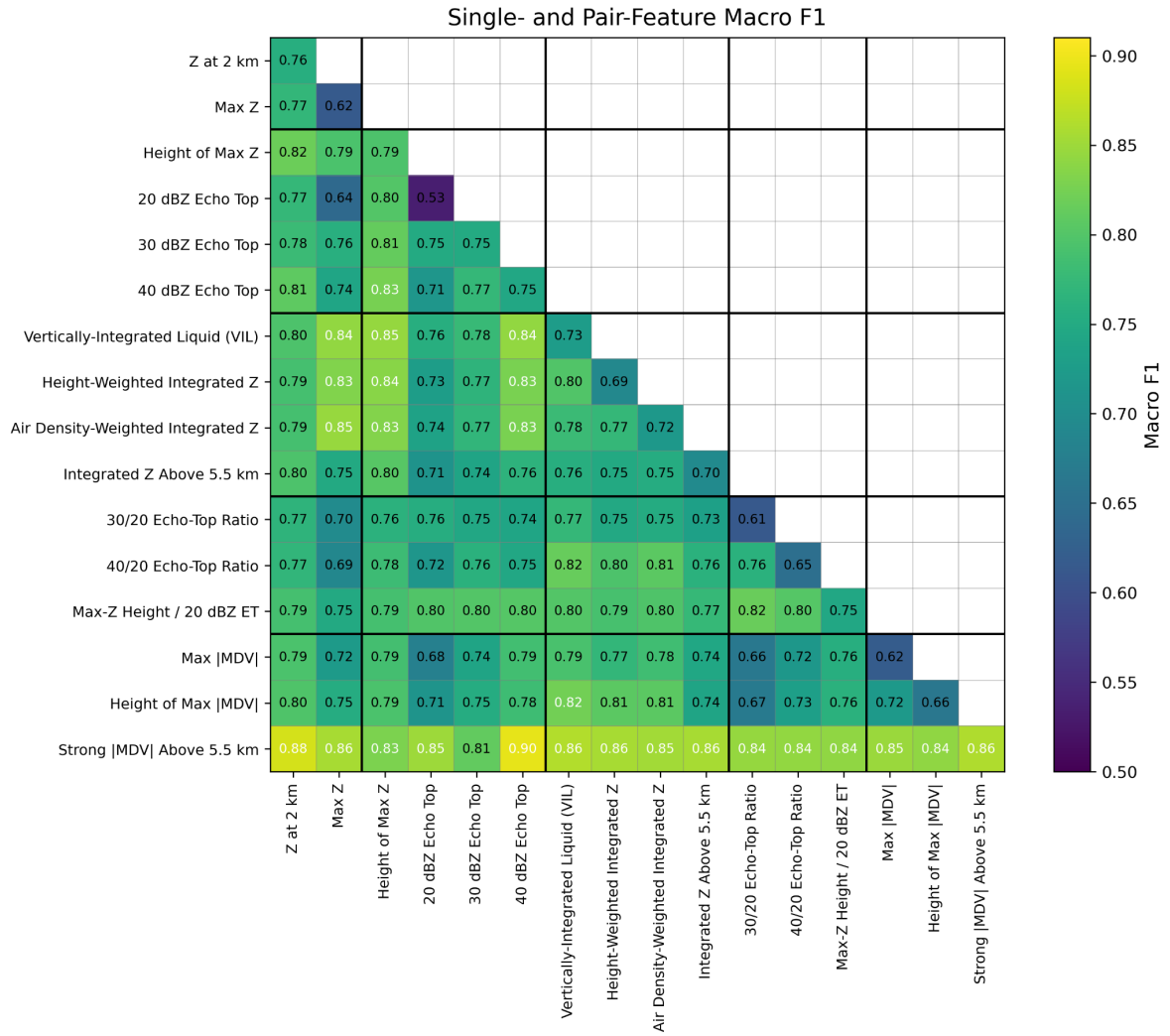


Figure S2: Heatmap of macro-F1 for individual and two-feature RF classifications. Diagonal entries show single-feature scores and off-diagonal entries show the corresponding feature-pair performance.

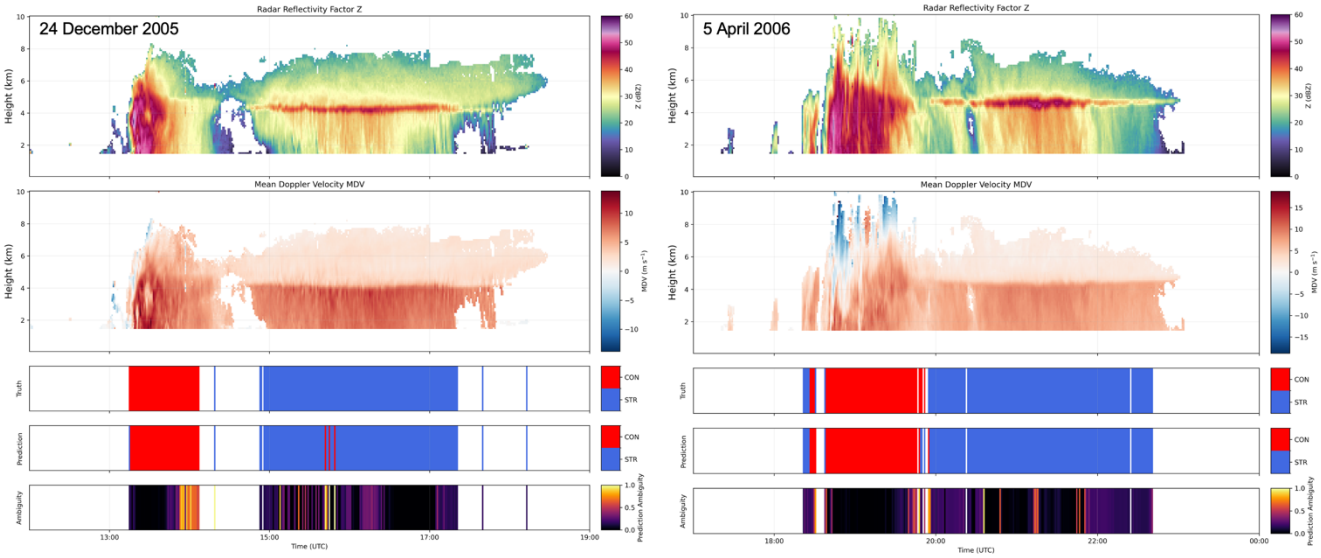


Figure S3: As in Figure 6, but for the 24 December 2005 (left) and 5 April 2006 (right) events over Darwin.

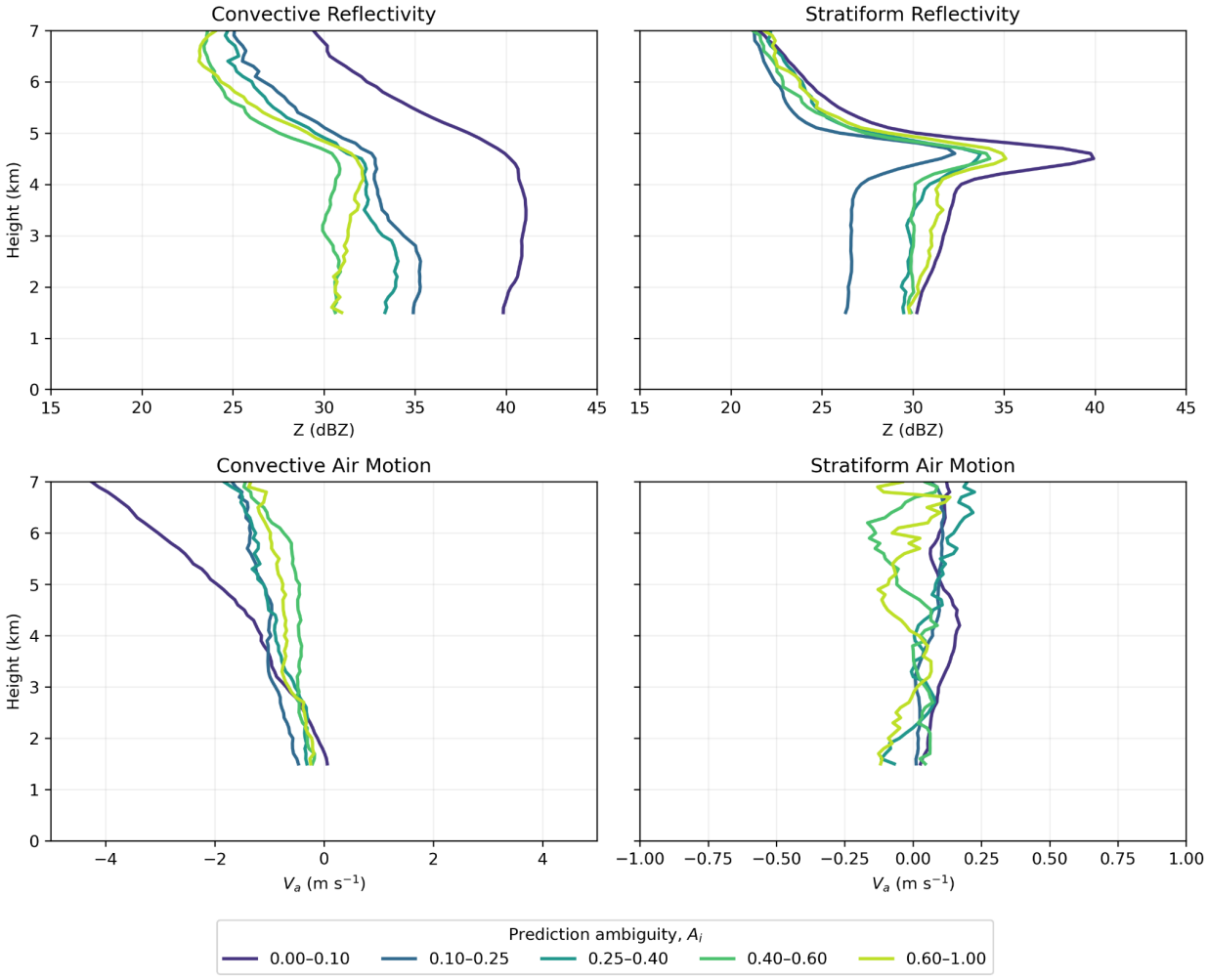


Figure S4: Mean profiles of Z and Va for our reference convective and stratiform populations, composited across five ranges of prediction ambiguity from a higher performing three-feature RF prediction. Darker colors indicate lower prediction ambiguity.