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Supplemental Material

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Supplemental Material

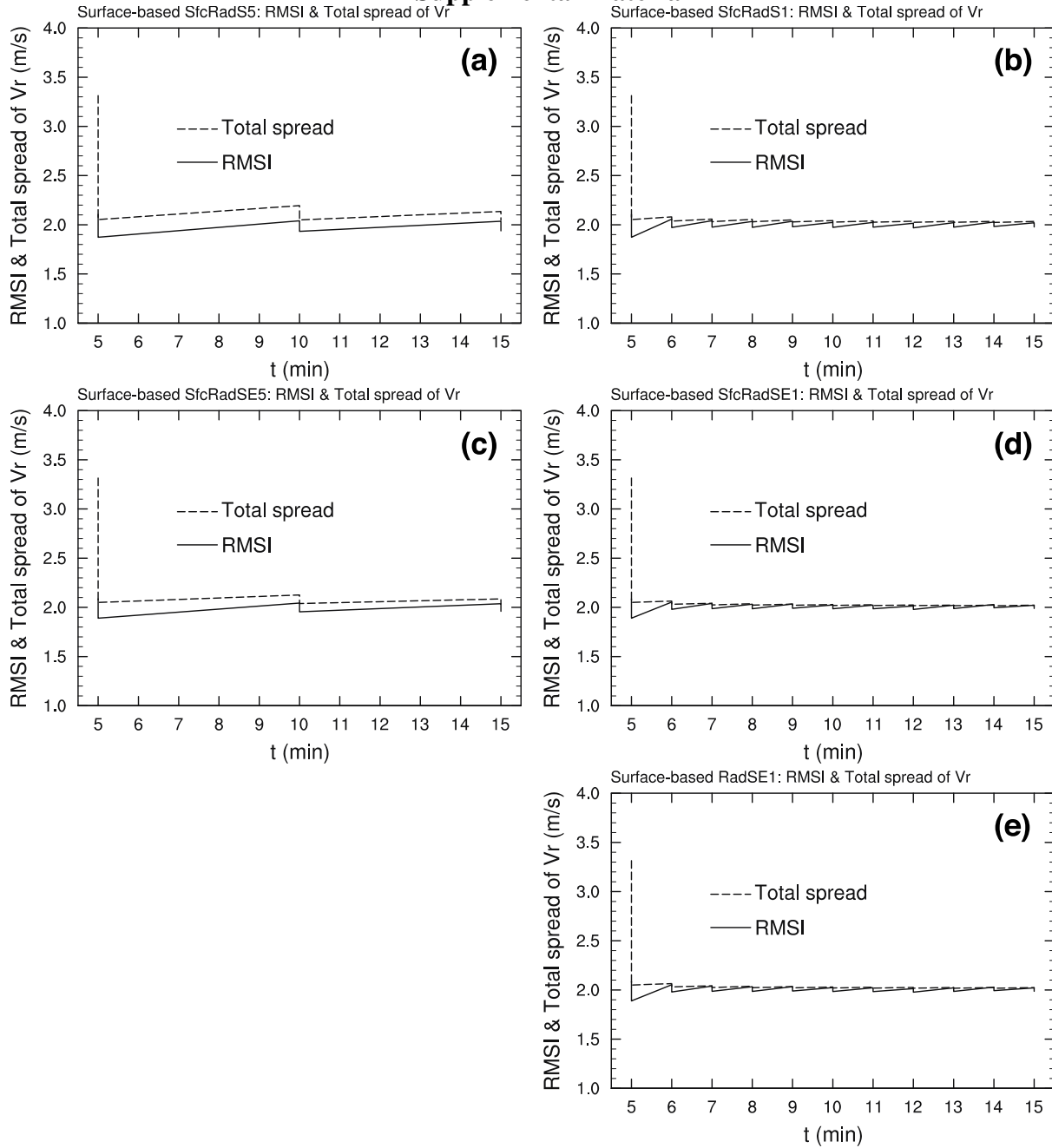


Fig. S1. Observation-space root-mean-square innovation (RMSI) and total ensemble spread (standard deviation) for assimilated radial velocity observations in the surface-based case for (a) SfcRadS5, (b) SfcRadS1, (c) SfcRadSE5, (d) SfcRadSE1, and (e) RadSE1 during the data assimilation period from $t = 5$ to 15 min.

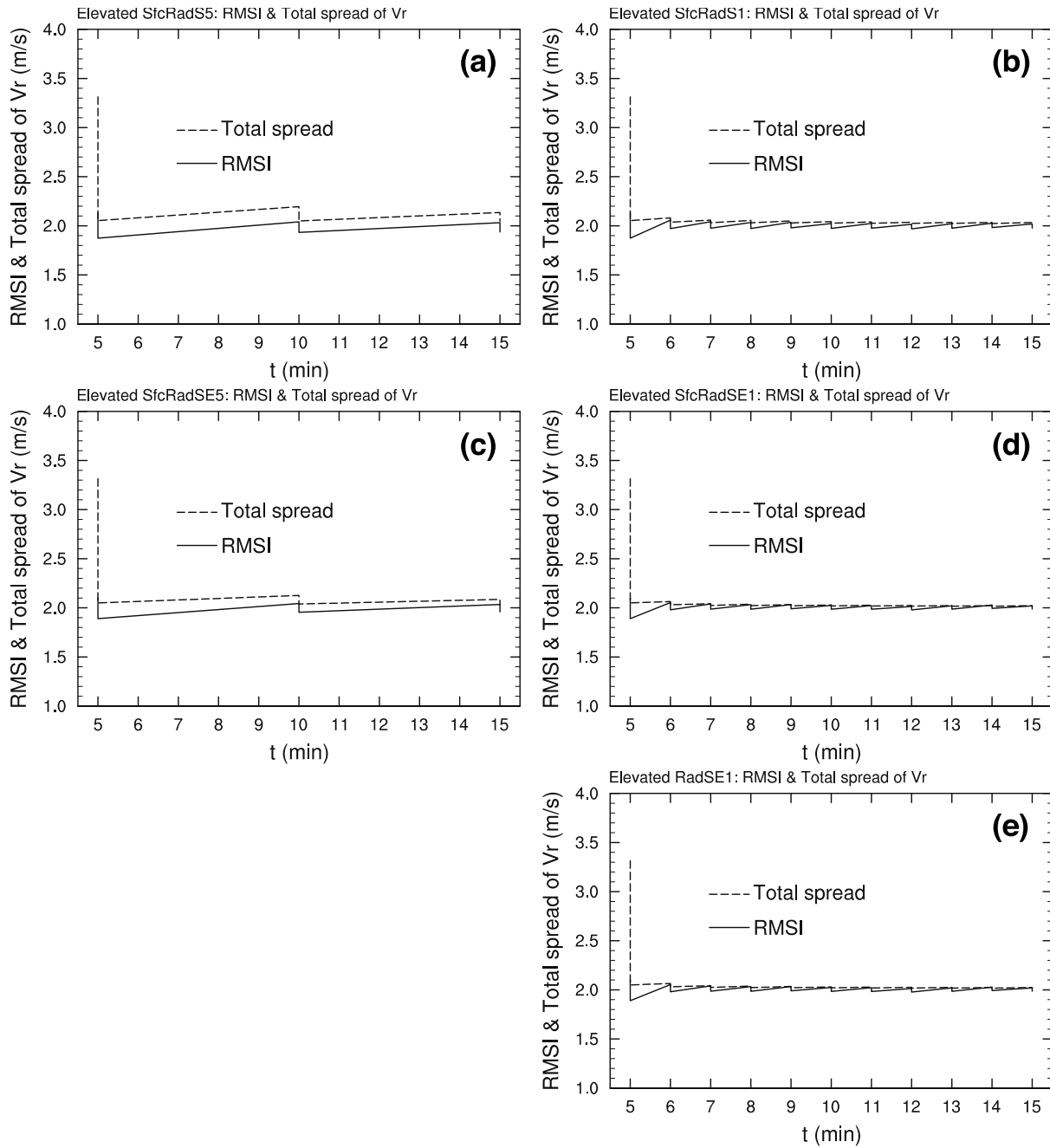


Fig. S2. Observation-space root-mean-square innovation (RMSI) and total ensemble spread (standard deviation) for assimilated radial velocity observations in the elevated case for (a) SfcRadS5, (b) SfcRadS1, (c) SfcRadSE5, (d) SfcRadSE1, and (e) RadSE1 during the data assimilation period from $t = 5$ to 15 min.