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Ensemble Kalman filtering for assimilation of mesosphere and lower thermosphere observations

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In this paper the ability of the Ensemble Kalman Filter (EnKF) to assimilate a realistic set of space-based observations currently available in the Mesosphere Lower-Thermosphere (MLT) region is examined. An EnKF assimilation system has been constructed using a time-dependent, dynamical, chemical stratosphere-mesosphere model with the National Center for Atmospheric Research (NCAR) Data Assimilation Research Testbed (DART).