

Assimilation of Multiple Ozone Sources into the NCEP Global Forecast System

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Brief Abstract:

In the near future, highly resolved ozone data will be available operationally to NCEP from the OMPS on the NPP, and NPOESS satellites. This data will be in addition to SBUV/2 data from satellites still in operation and ozone observations from non-operational satellites such as Aura. NCEP is preparing for the assimilation of multiple satellites' ozone data by studying the impacts of assimilating NOAA-16, NOAA-17 and NOAA-18 SBUV/2 ozone data and ozone products from the Aura OMI instrument. Presentation of the impacts upon the quality of the model's vertical distribution of and the total column amount of ozone as well as upon the model's thermal and dynamical fields will be given.