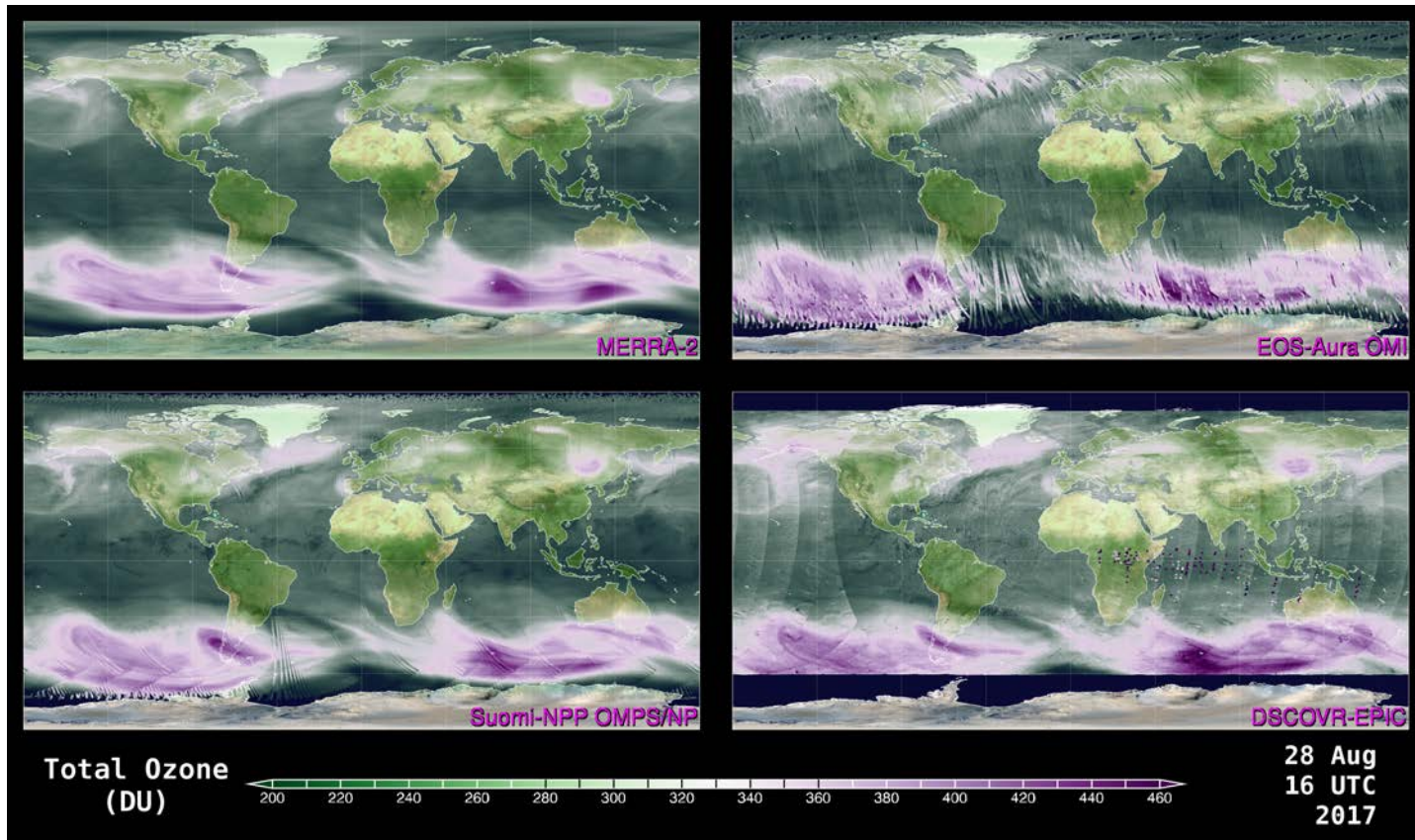




Space-based and Data Assimilation Views of Total Ozone



Global maps of total column ozone (DU) at 16UTC on 28 August 2017. High values, where ozone is more abundant, are emphasized in purple, while lower values are shown in more transparent green. The four panels show assimilated ozone from MERRA-2 (upper left) and observations from EOS-Aura OMI (upper right), Suomi-NPP OMPS-NP (lower left) and DSCOVR-EPIC (lower right).

The MERRA-2 values are on a global grid at the nominal time. The observations are all accumulated over the preceding day, with each observation location denoted by a filled circle. While each panel shows a similar ozone distribution, it is obvious that the assimilation smooths over the orbital and uncertainty features in the observed fields.