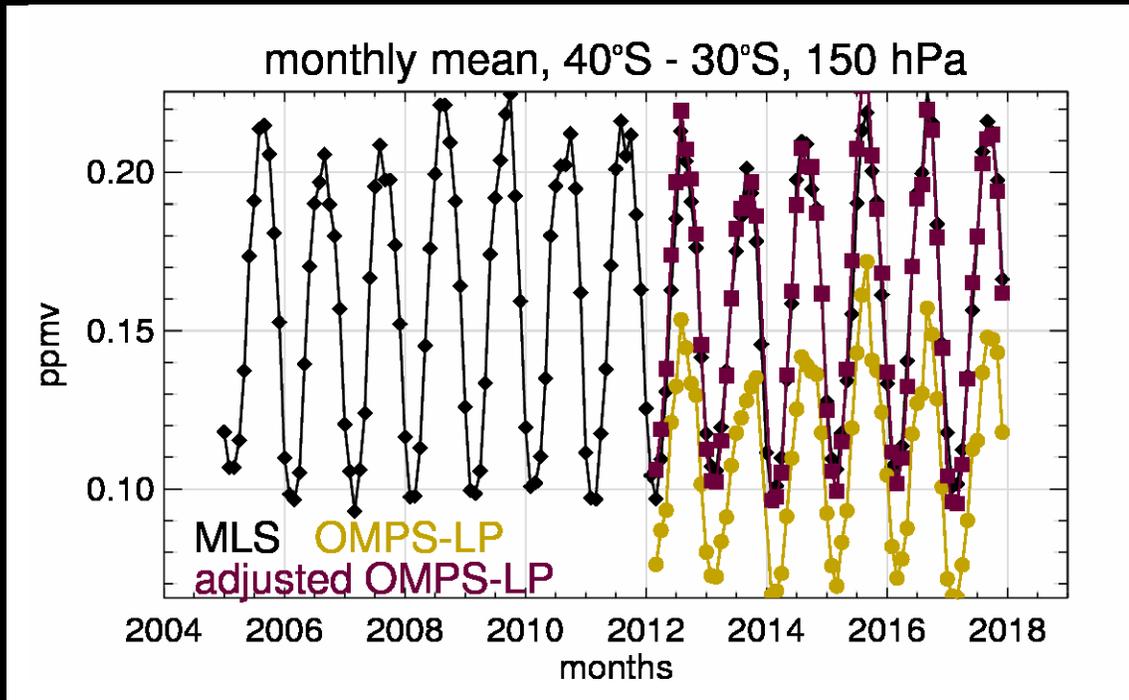
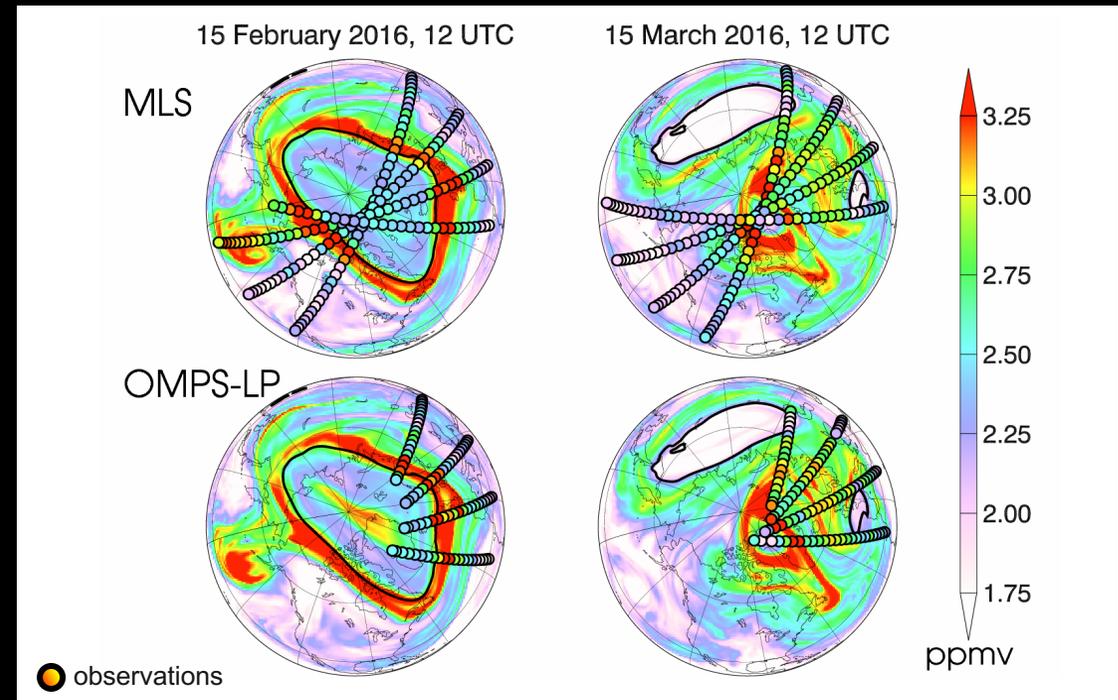


Developing an Ozone Climate Data Record from Assimilation of High-Resolution Satellite Observations

Assimilation of high-resolution satellite observations can provide accurate representations of stratospheric ozone on time scales ranging from hours to decades.



Observations: Systematic differences between MLS and OMPS-LP ozone can be corrected by applying a simple adjustment to the OMPS-LP data.



Assimilation: Maps of ozone concentrations at the 480-K potential temperature surface (approximately 19 km above the sea level) from assimilation of MLS and OMPS-LP observations during the 2016 winter and spring.