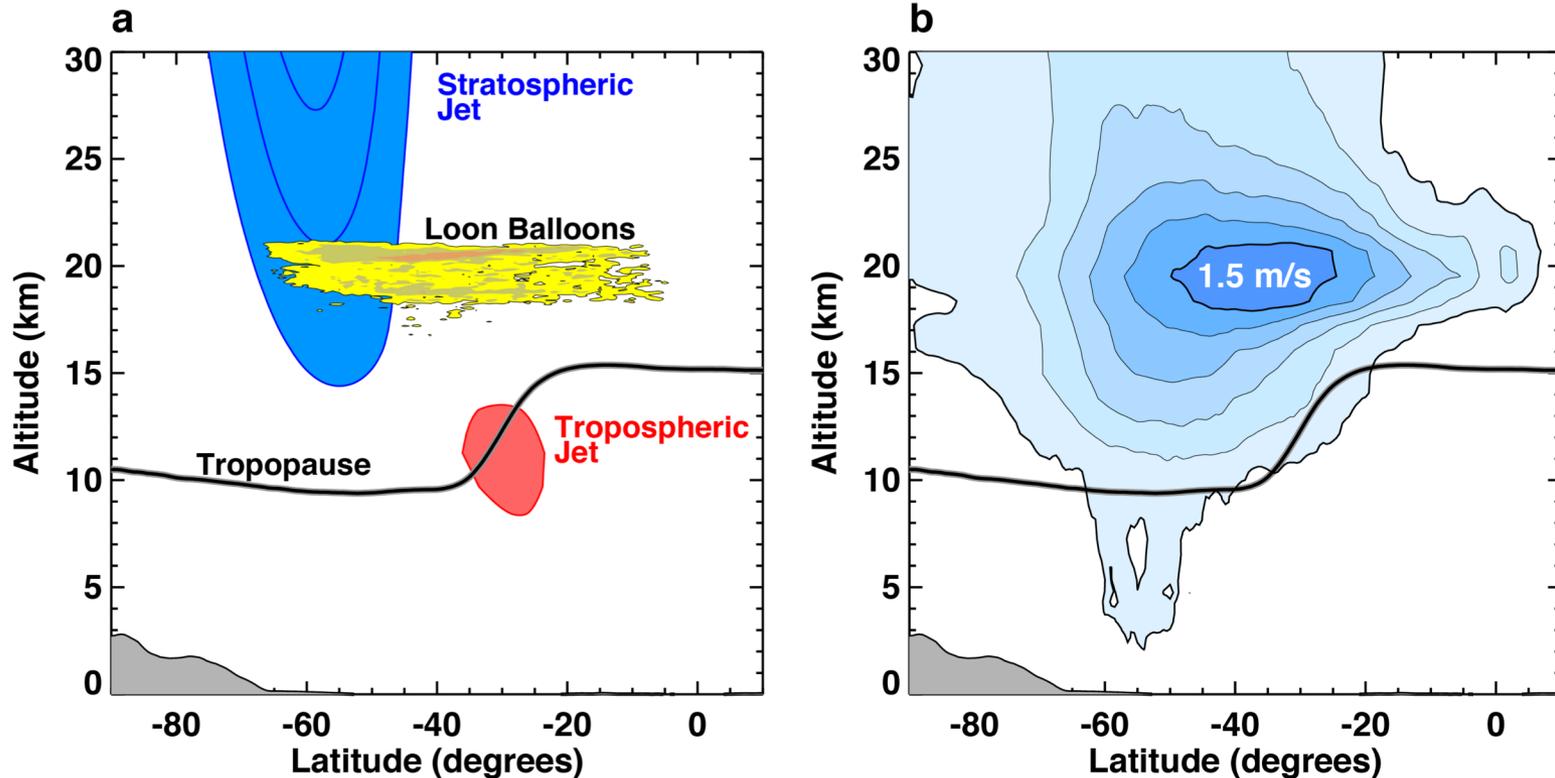


# Using Loon Stratospheric Balloon Observations in Global Assimilation



The figure above represents: a) density of Loon balloon observations during August 2014 (yellow shading), locations of stratospheric jet (blue shading), tropospheric jet (red shading), and tropopause (black curve), and b) root mean squared zonal wind changes in the GMAO data assimilation system (DAS) during August 2014 produced by including the Loon balloons into the DAS. The contour interval is 1/4 m/s.