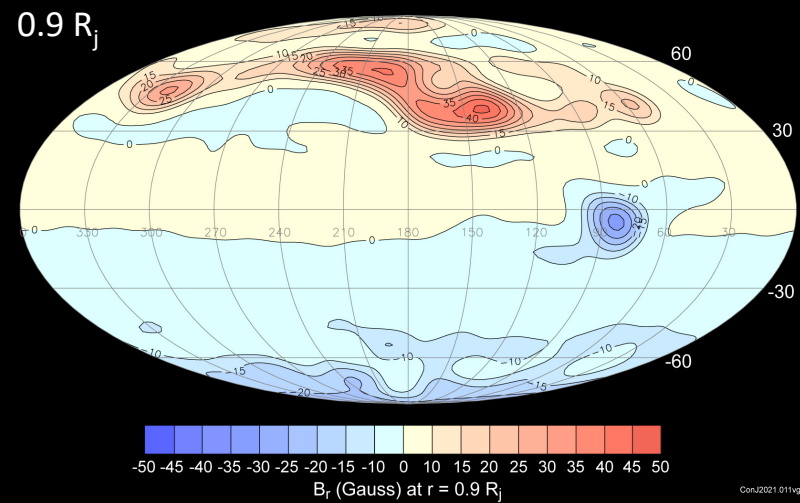
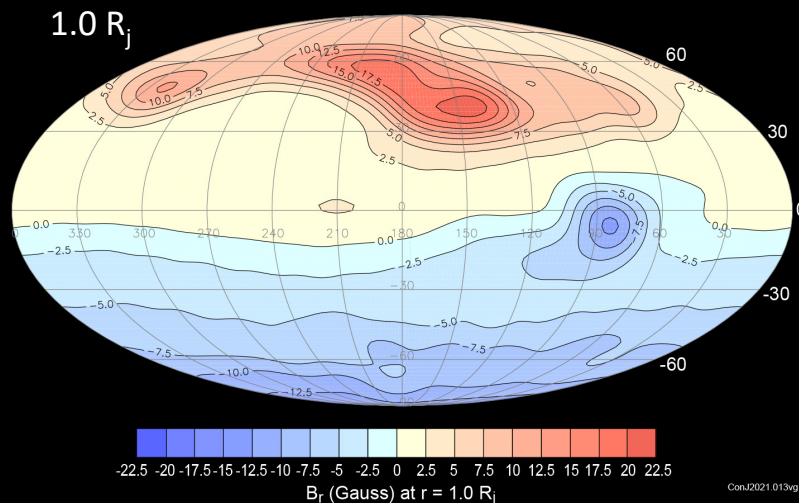




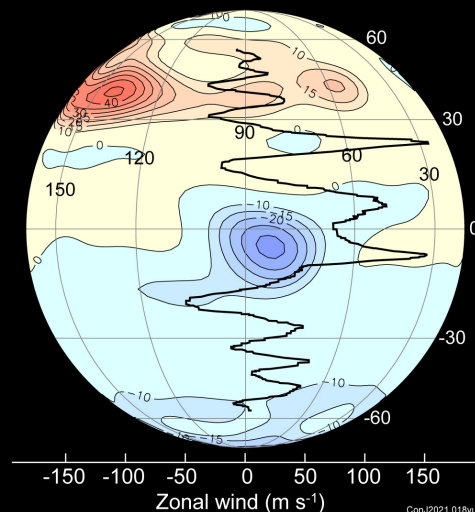
# Juno Reveals Interaction Between Jupiter's Atmosphere and Magnetic Field



Juno Magnetic Field Model (JRM33)

Radial Magnetic Field

Comparison of radial magnetic field at  $0.9 R_J$  and the zonal wind profile as measured at the surface (Simon et al., 2015). The correspondence suggests shear of the Great Blue Spot to westward below the equator & eastward above.



The zonal flows can only interact with the magnetic field if they penetrate to depths ( $\sim 3000$  km) where the electrical conductivity of the Hydrogen envelope is large enough to grip magnetic field lines.