



FIG 6. Diagrams of the equatorial mean state of a) zonal wind stress and sea surface height, b) zonal velocity and c-h) momentum budget terms. The line color in a) reiterates the y-axis and reflects the magnitude of the wind stress or sea surface height at a given longitude. b-h) are plotted on isopycnals where the solid gray line indicates the surface. The solid black contours are for spatial reference and indicate the region of  $.5 \text{ m s}^{-1}$  zonal velocity in the SODA time-mean. Note the sign convention: positive (negative) contours indicate eastward (westward) movement or acceleration.