



Near-surface properties measured on the transect from the S edge of the ITCZ, through the ITCZ entry region, and into the suppressed boundary layer at the equatorial cold tongue: wind speed (upper panel); SST- blue circle and air T - green x's (middle panel); sensible heat flux - blue circles and latent heat flux - green x's (lower panel). Fluxes are suppressed in the stable boundary layer caused by warm air crossing the cold tongue from the south. The warm SST front triggers convective turbulence which increases fluxes and mixes down higher momentum (thus, the increase in wind speed).