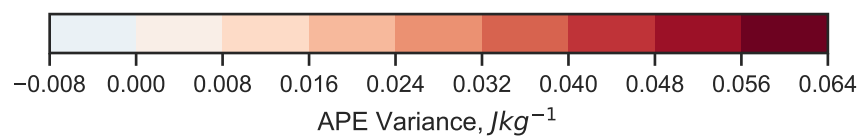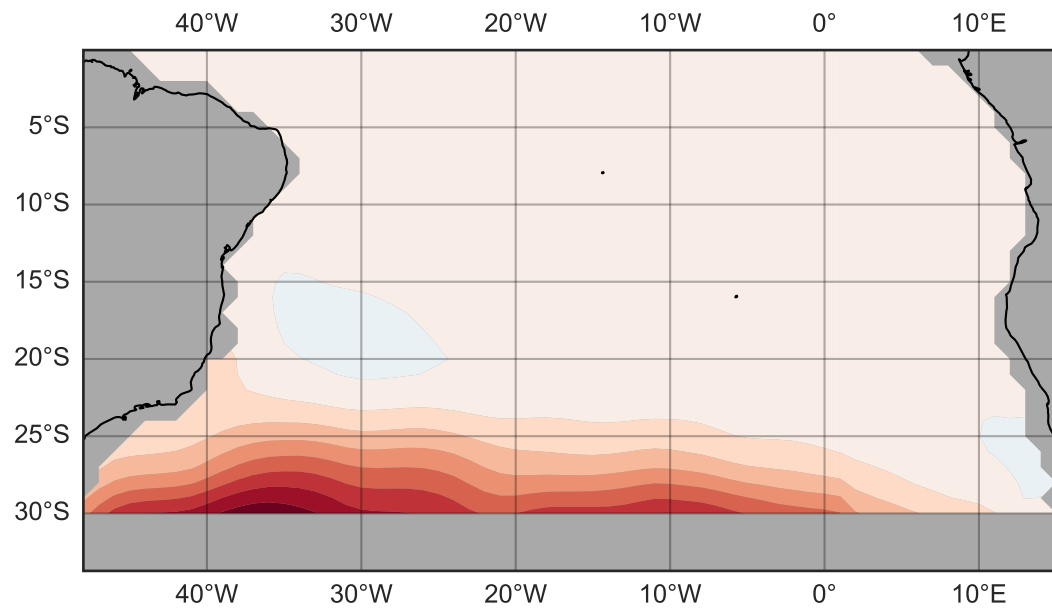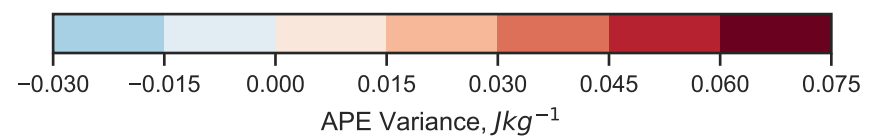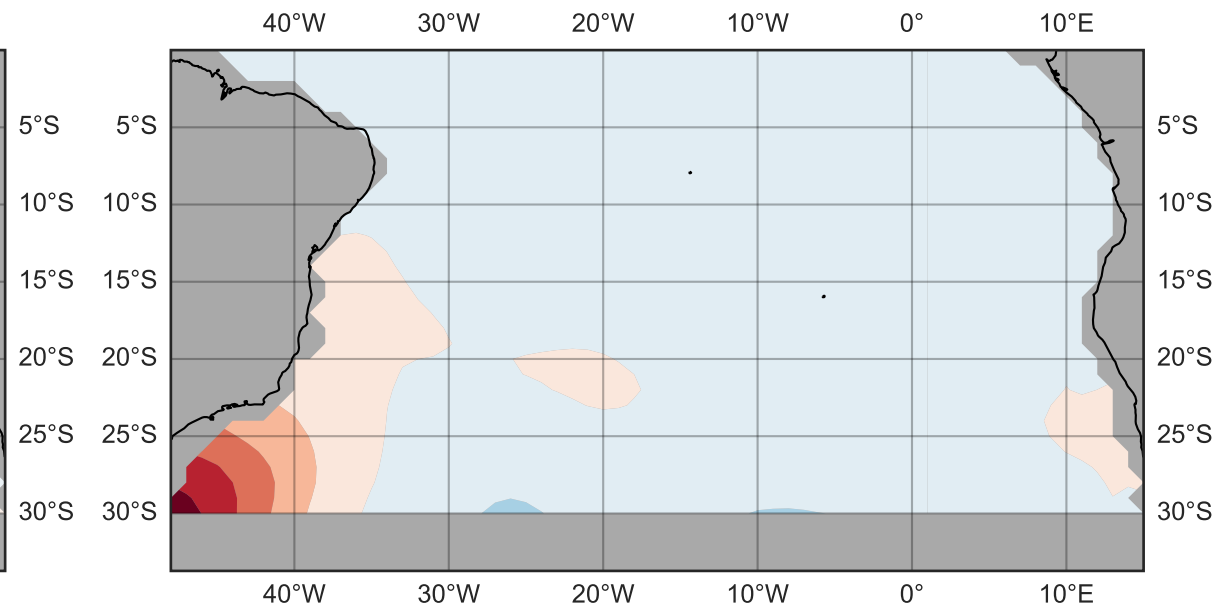South Atlantic Ocean, EOF as Covariance: APE density at 970m