Equatorial Pacific, EOF as Covariance: APE density at 970m EOF 1: 14.46% EOF 2: 10.82% 120°W 180° 180° 120°W 60°N 60°N 40°N 40°N 20°N 20°N 0° 0° 20°S 20°S 40°S 40°S 60°S 60°S 180° 120°W 180° 120°W 0.000 0.015 -0.056 -0.048 -0.040 -0.032 -0.024 -0.016 -0.008 0.000-0.075 -0.060 -0.045-0.030 -0.0150.030 APE Variance,  $Jkg^{-1}$ APE Variance,  $Jkg^{-1}$ EOF 3: 9.0% EOF 4: 8.0% 180° 120°W 180° 120°W 60°N 60°N 40°N 40°N 20°N 20°N 0° 0° 20°S 20°S 40°S 40°S 60°S 60°S 180° 120°W 180° 120°W 0.000 -0.060 -0.045 -0.030 -0.0150.000 0.015 0.030 -0.075 -0.060 -0.045 -0.030 -0.0150.015 0.045 0.030

APE Variance,  $Jkg^{-1}$ 

APE Variance,  $Jkg^{-1}$