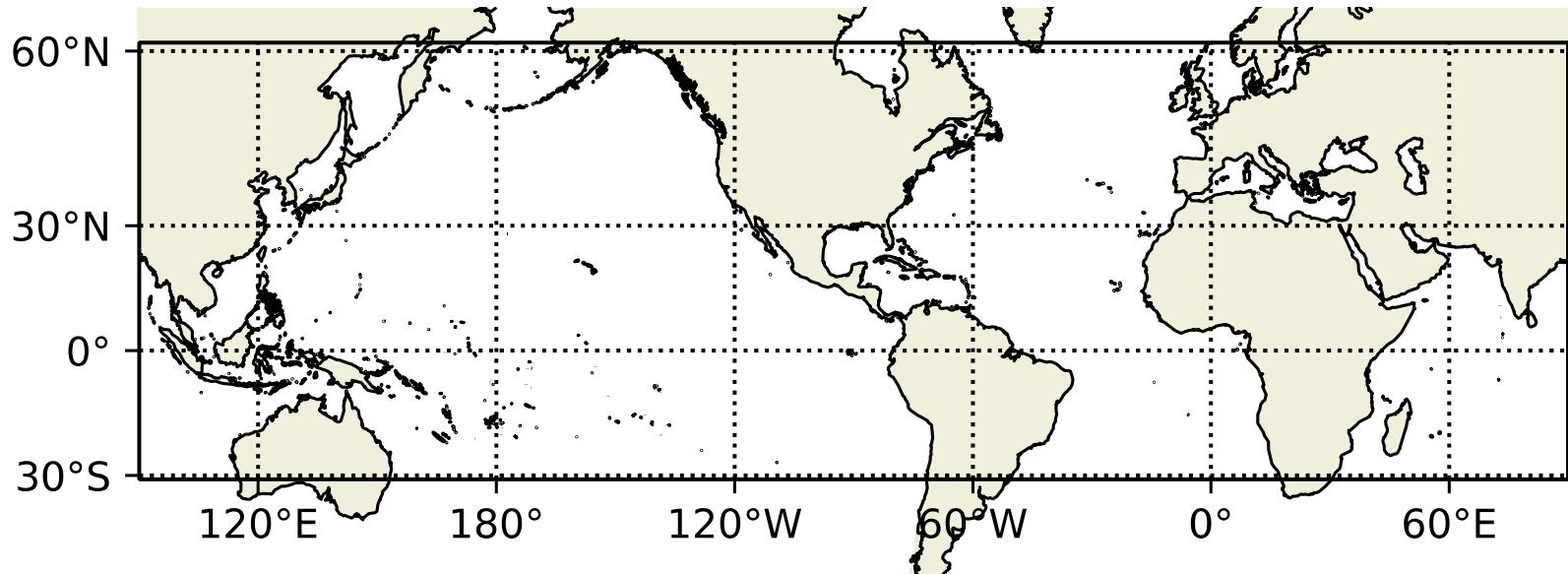




Anthropogenic Influences on African Easterly Waves

Emily Bercos-Hickey & Christina M. Patricola

October 14, 2020

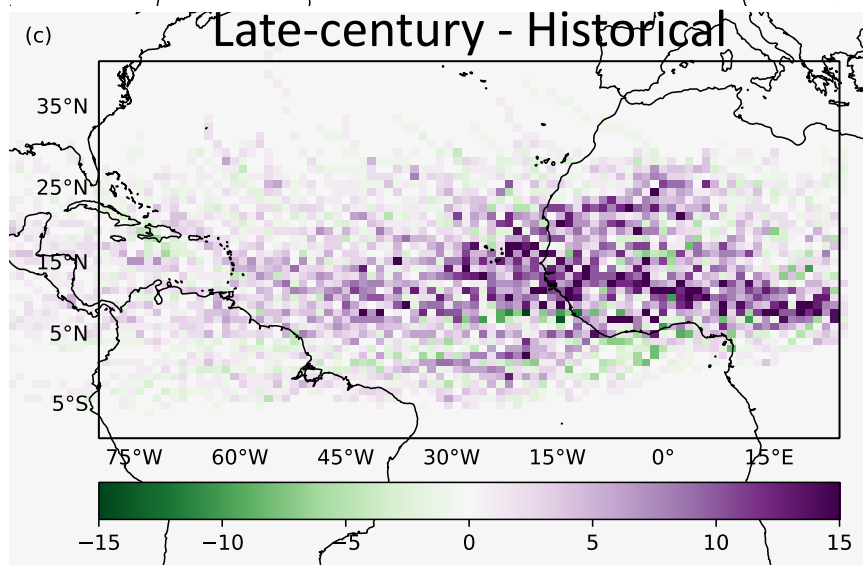
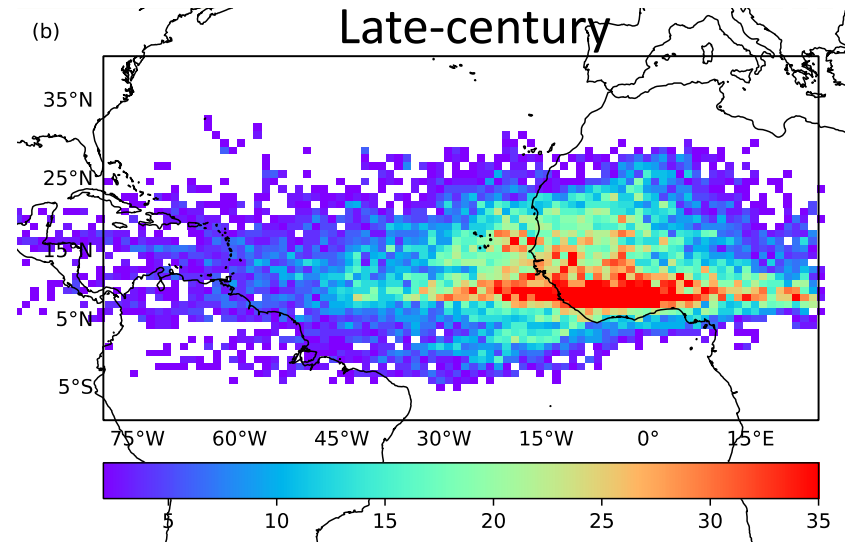
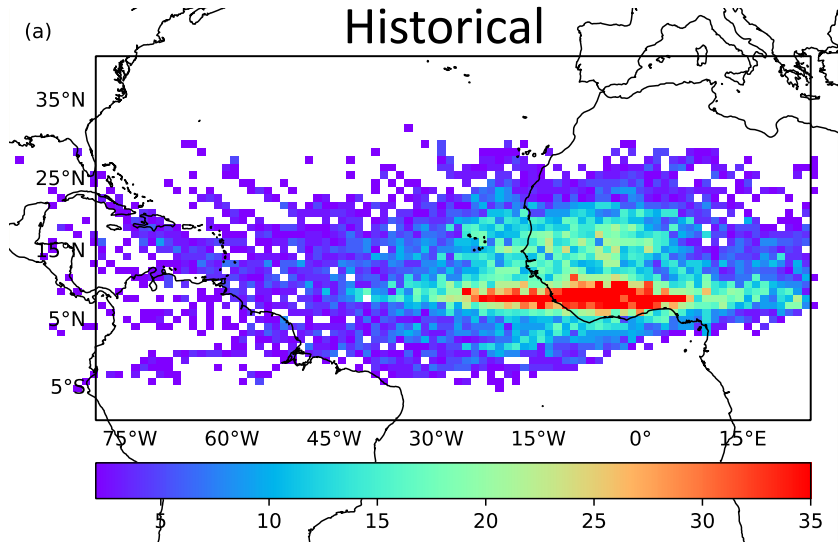


Weather Research and Forecasting Tropical Channel Model
historical and late-century simulations



AEW Tracking

May-October 2001-2010 AEW track densities :

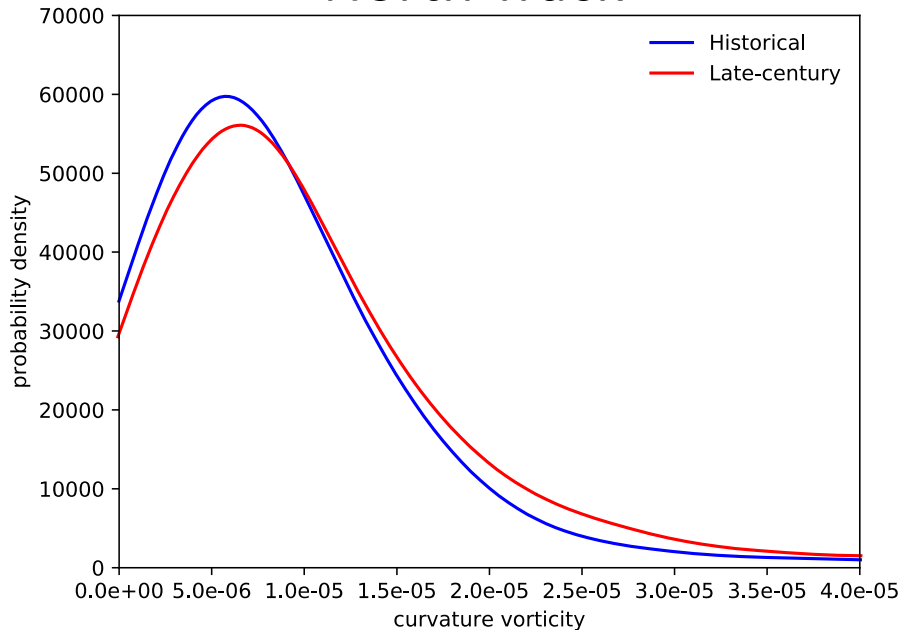


➤ 21% more AEWs in the late-century than the historical

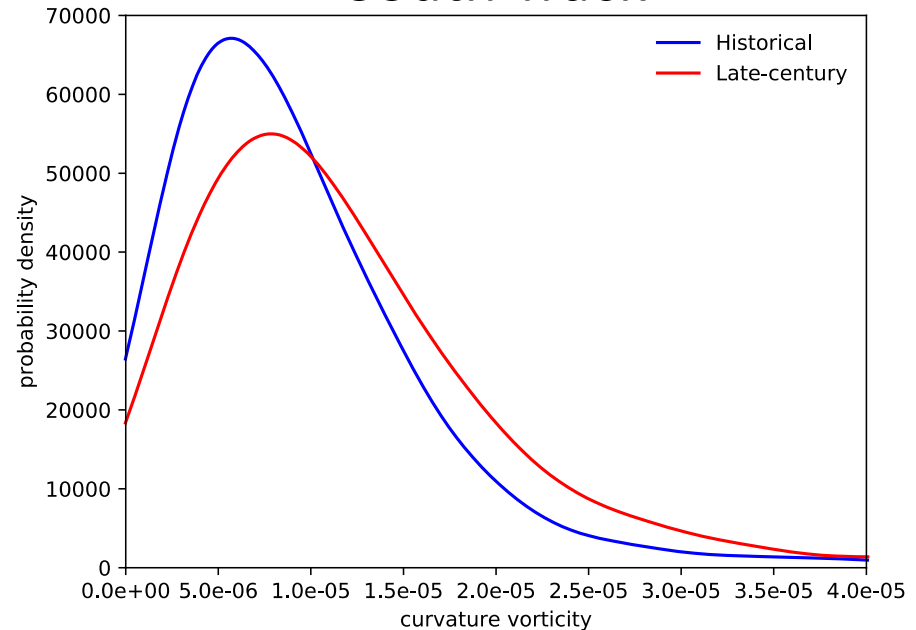
AEW Track Strength

Probability density functions of the curvature vorticity:

North Track



South Track



- Shift to larger curvature vorticity values in the late-century
- Stronger AEWs in the late-century