"Variability and Dynamics of Atlantic and Pacific Easterly Waves in Observations and Operational Models" (GC#2001787)
Yolande Serra and George Kiladis

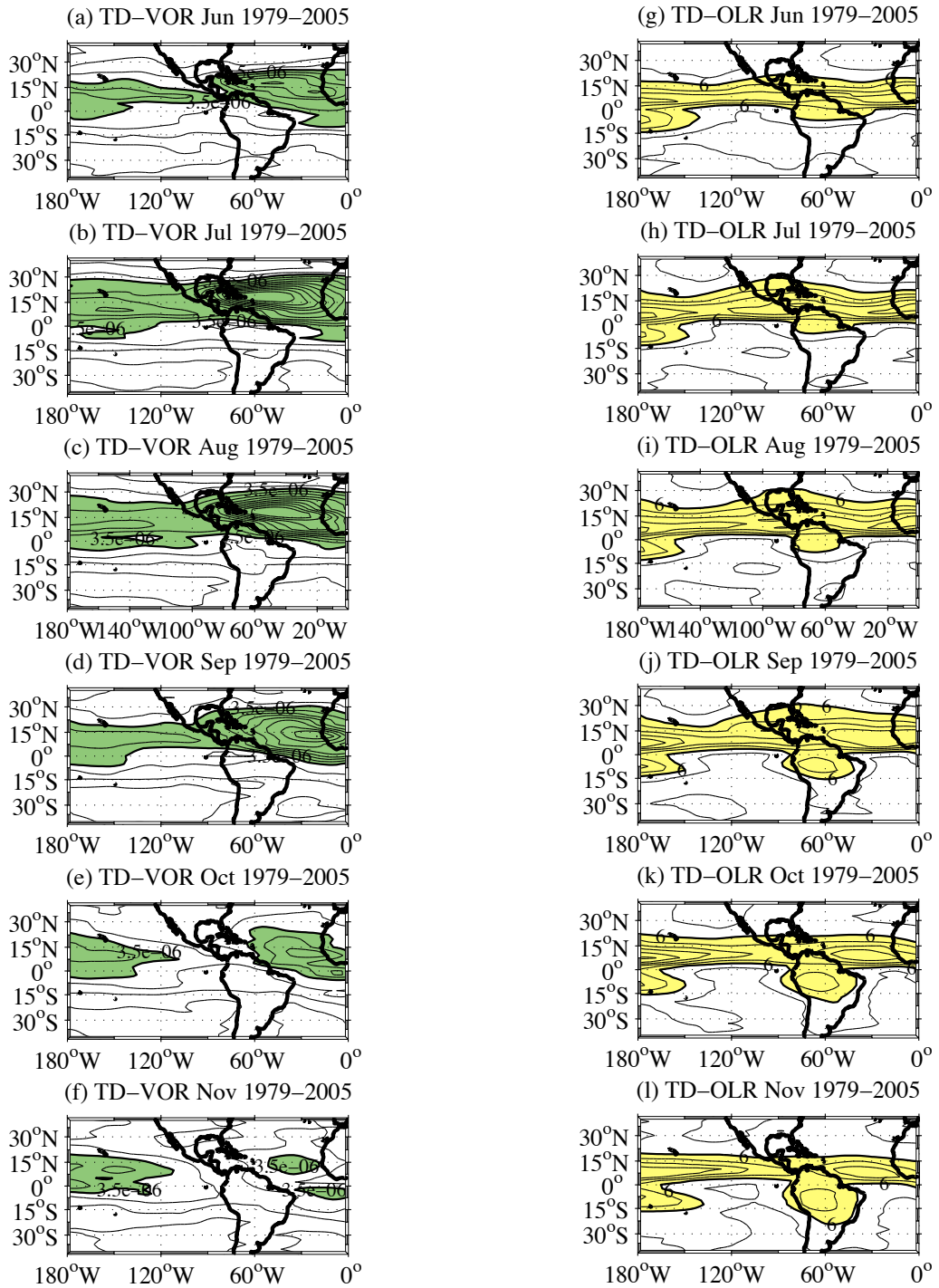

Fig. 1 - Standard deviations of (a-f) NCEP/NCAR 700 hPa TD-filtered vorticity and (g-l) TD-filtered OLR for June through November 1979-2002. Standard deviations ≥ 3.5×10^{-6} and ≥ 6 W m^{-2} are shaded in (a-f) and (g-l), respectively.

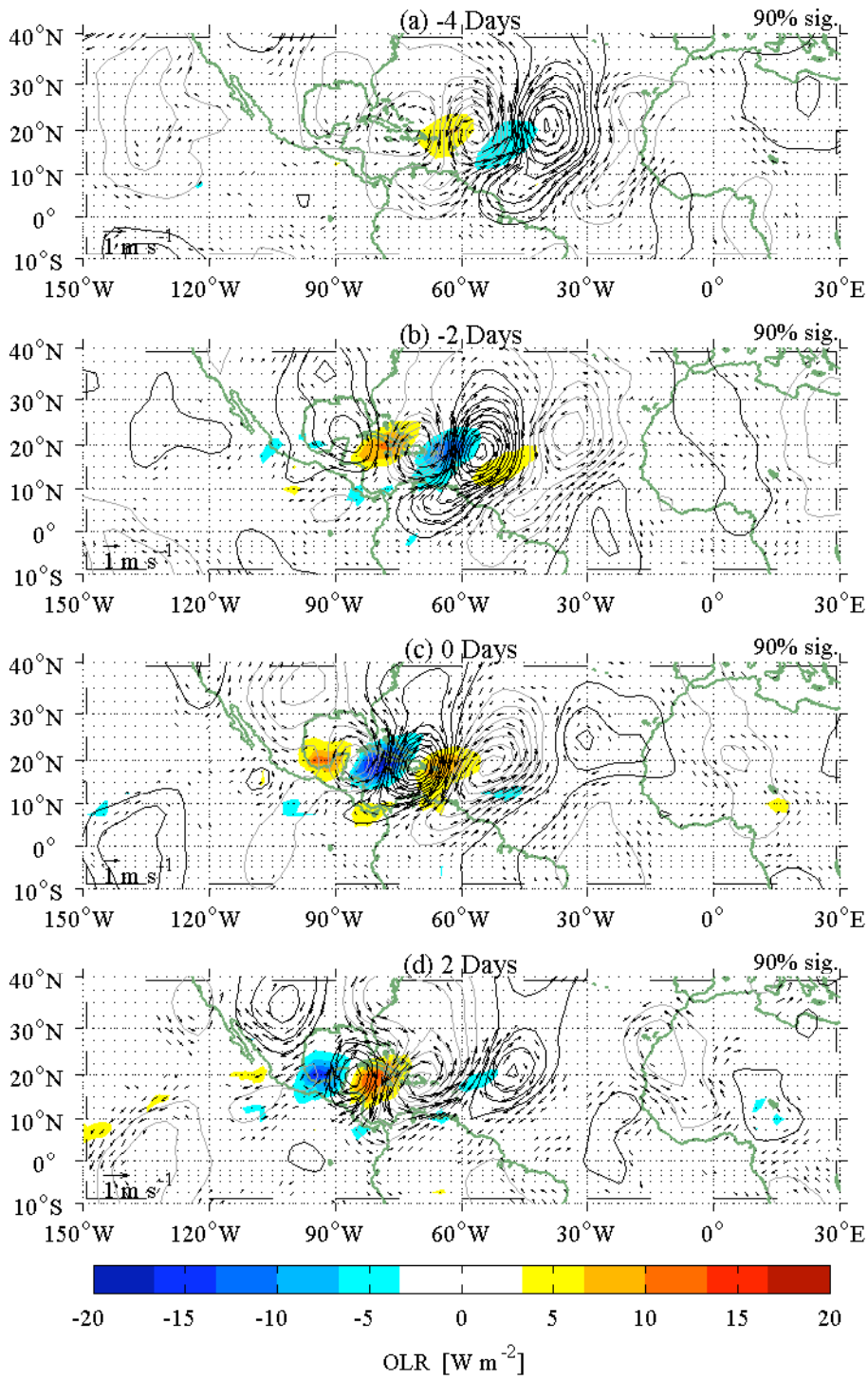

Fig. 2 - Regressions of 700 hPa NCEP/NCAR winds (arrows) and streamfunction (gray (positive) and black (negative) contours) onto TD-filtered OLR for -4 to +2 day lags for base point at 20°N 80°W. Streamfunction contour interval is 1×10^5 m^2 s^{-1}.

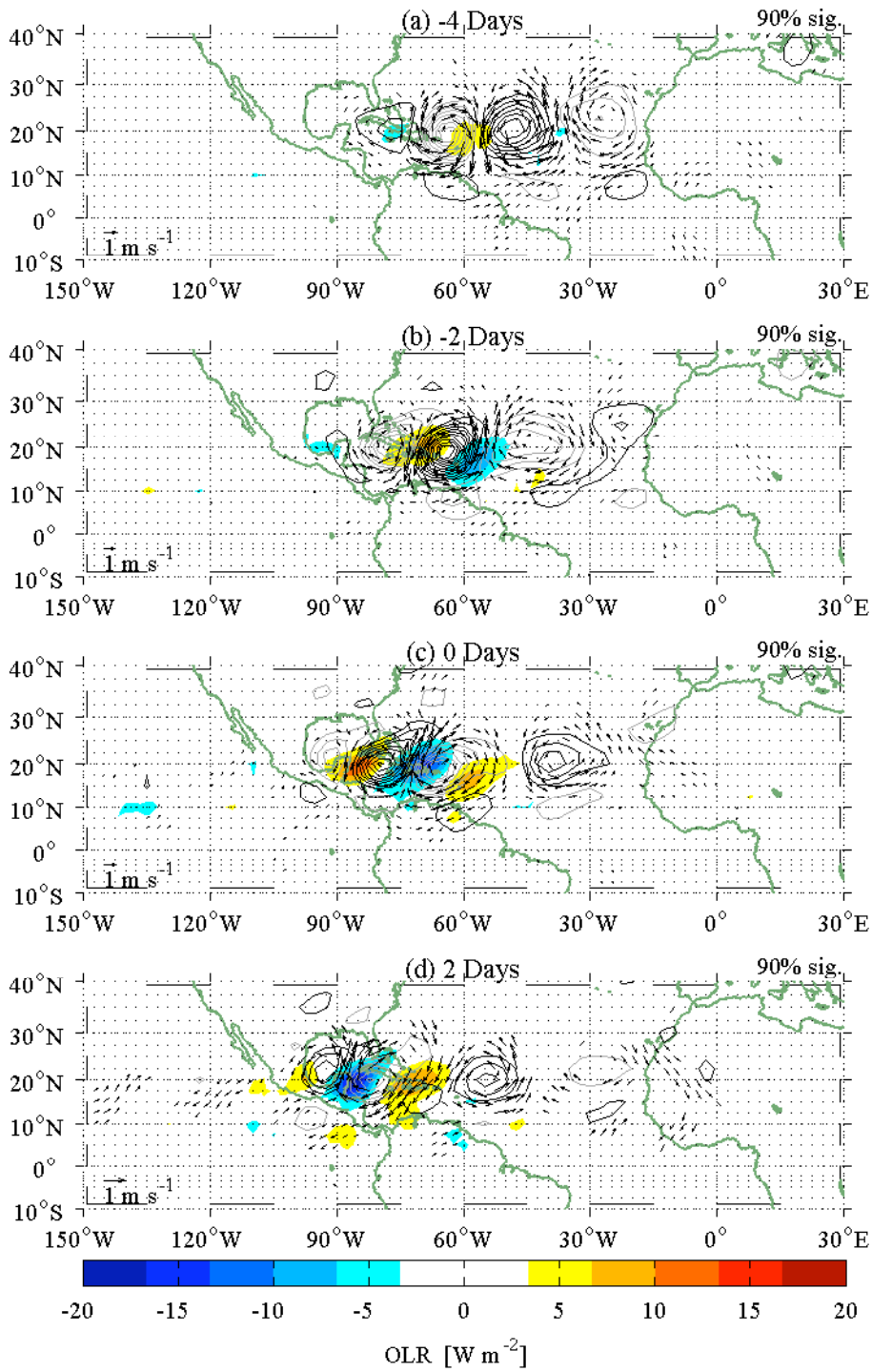

Fig. 3 - Regressions of 700 hPa NCEP/NCAR winds (arrows) and vorticity (gray (negative) and black (positive) contours) onto 700 hPa TD-filtered NCEP/NCAR vorticity for -4 to +2 day lags for base point at 20°N 80°W. Also shown are regressions of OLR onto TD-filtered OLR (colored contours), where OLR lags vorticity and wind regressions by 1 day in all panels. Vorticity contour interval is 1×10^{-6} s^{-1}.

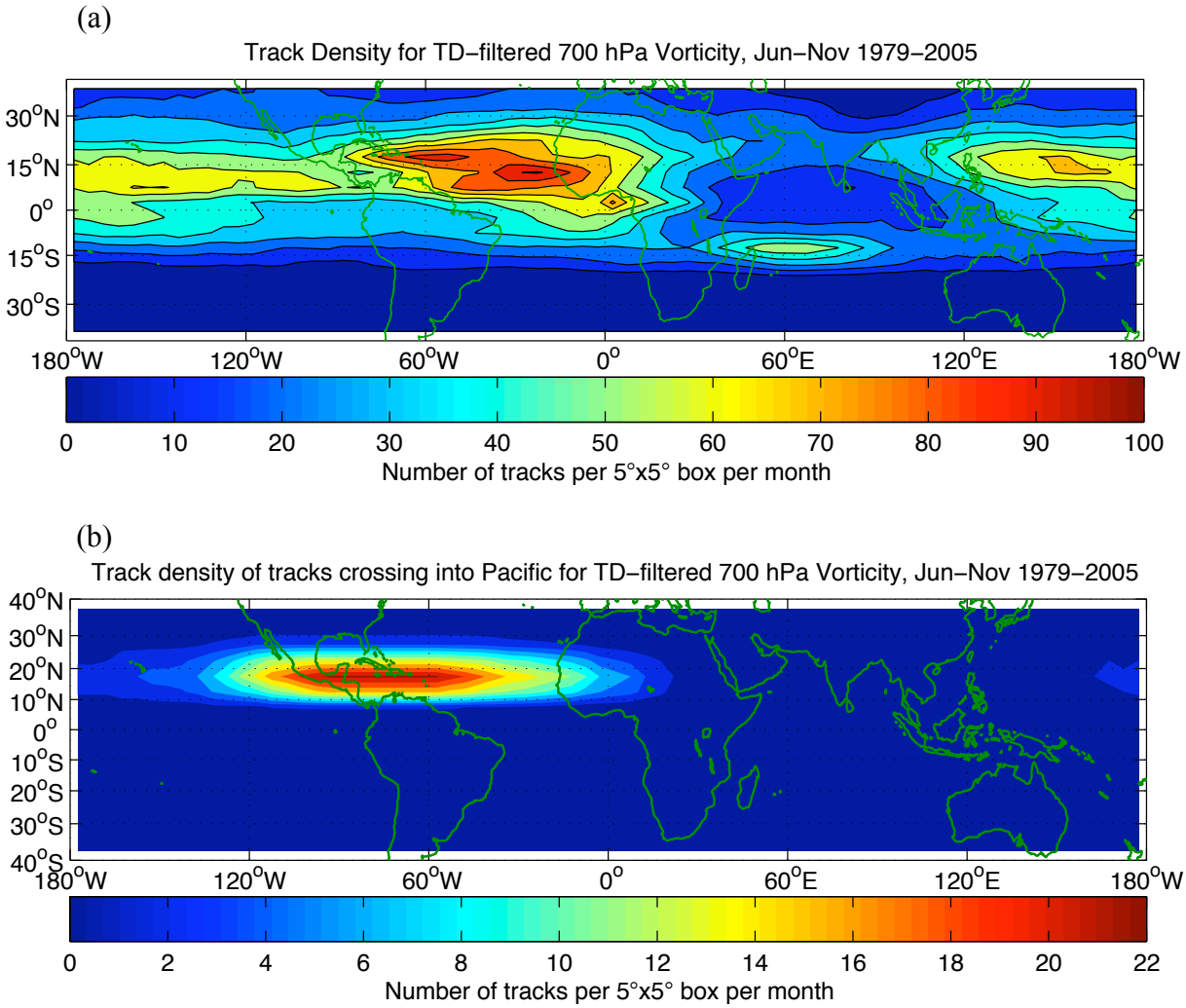

Fig. 4 - June through November 1979-2005 track number density for 700 hPa TD-filtered vorticity for (a) all tracks >1000 km in length and lasting more than 2 days, and (b) only those tracks in (a) crossing from the Atlantic into the east Pacific. See text for details.

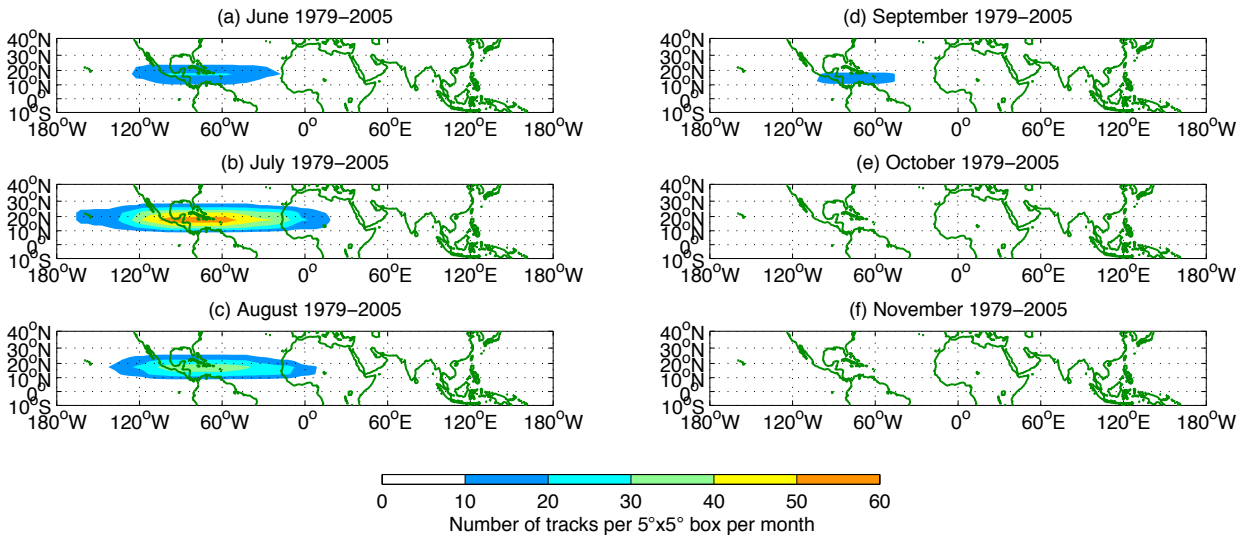

Fig. 5 - Track densities shown in Fig. 4 (b) but by month from June through November.

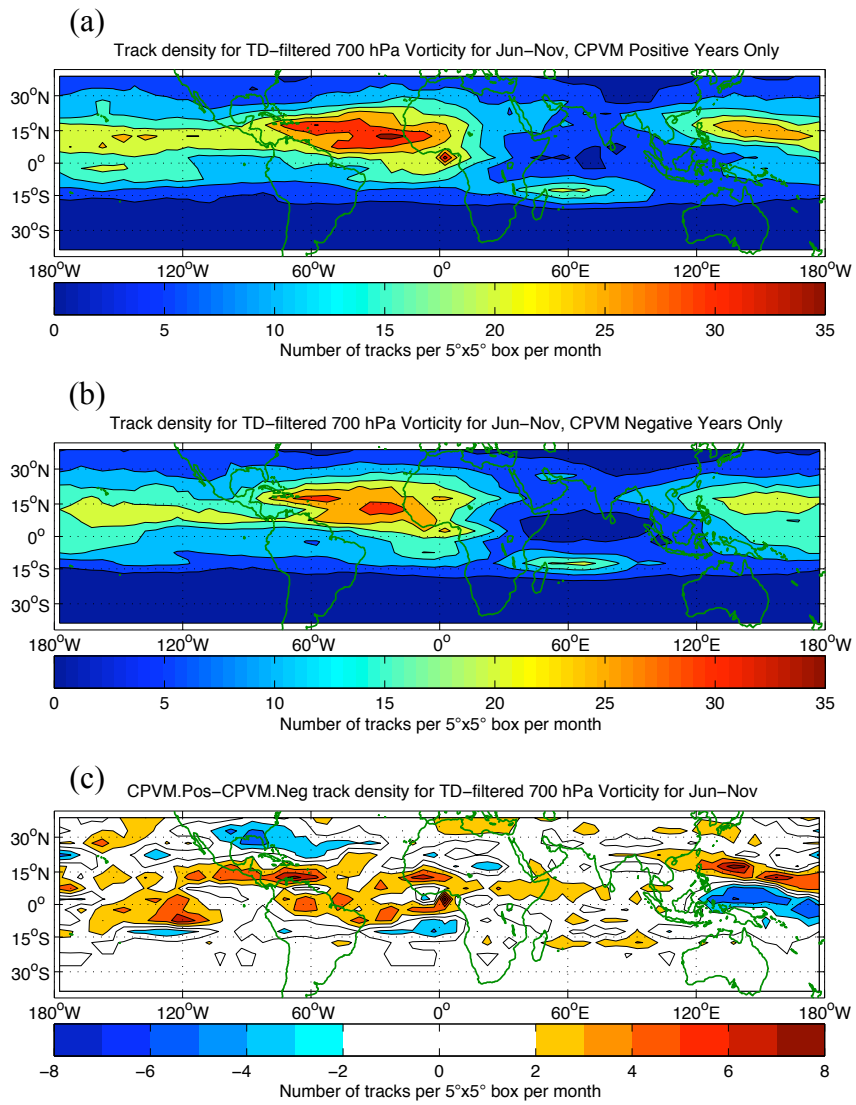

Fig. 6 - June through November track number density for 700 hPa TD-filtered vorticity for (a) positive CPVM years, (b) negative CPVM years, and (c) positive minus negative CPVM years. See text for details.