

Fig. 1 a-e JJAS precipitation rate climatology from **a** GPCP, **b** CNRM-CM5, **c** MIROC-ESM, **d** CMIP5 MMM, and **e** CMIP3 MMM. Also given in **a** is the pattern correlation of GPCP with CMAP, and in **b-e** are the model pattern correlations with GPCP over the region 40°E-160°E, 20°S-50°N. **f** (CMAP) *minus* (GPCP), **g-j** as **b-e** but for (model) *minus* (GPCP). The units are (mm day⁻¹). GPCP and CMAP data is from 1979-2007 and the model data is from 1961-1999

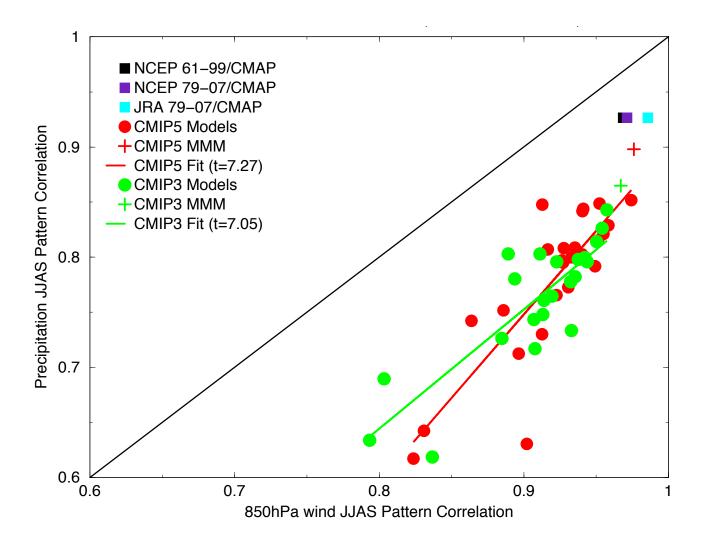


Fig. 3 Scatterplot of the pattern correlation with observations of simulated JJAS 850hPa wind climatology vs. the pattern correlation with observations of simulated JJAS precipitation climatology. The skill is relative to ERA40 and GPCP over the region 40°E-160°E, 20°S-50°N

