

Fig. 6 Monsoon onset pentad **a** GPCP, **b** gfdl cm2.0, **c** inm-cm 3.0, **d** CMIP5 MMM, and **e** CMIP3 MMM. Monsoon peak pentad **f** GPCP, **g** MIROC5, **h** echo-g, **i** CMIP5 MMM, and **j** CMIP3 MMM. Also given in **a** and **f** is the pattern correlation of GPCP with CMAP, and in **b-e** and **g-j** are the model pattern correlations with GPCP over the region 50°E-180°E, 0°-50°N. The units are pentad (Pentad 1 = January 1-5). Note the difference in scale for the onset vs. peak phases. GPCP and CMAP data are from 1979-2007 and the model data is from 1961-1999

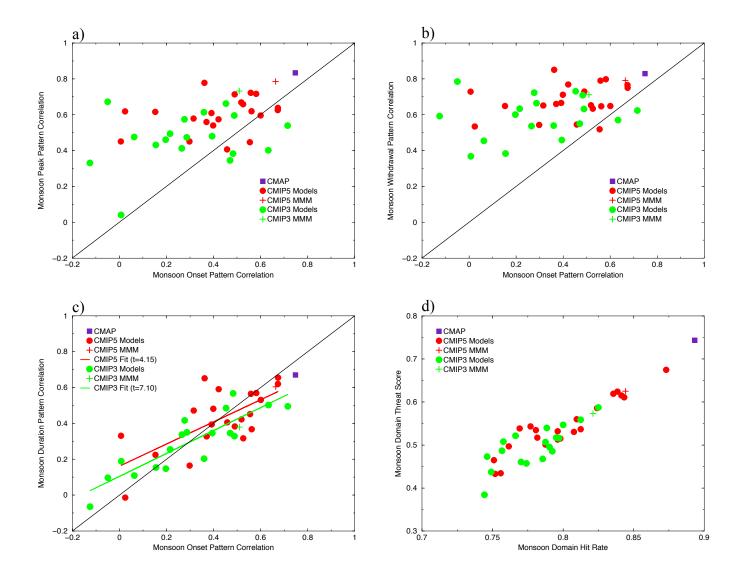


Fig. 8 Scatterplot of the pattern correlation with observations of the simulated pentad of monsoon onset vs. **a** the pattern correlation with observations of the simulated pentad of monsoon peak, **b** the pattern correlation with observations of the simulated pentad of monsoon withdrawal, and **c** the pattern correlation with observations of the simulated number of pentads of monsoon duration. **d** Scatterplot of the Monsoon Domain Hit Rate vs. the Monsoon Domain Threat Score. In **a-d** the skill is with respect to GPCP for the region 50°E-180°E, 0°-50°N

