Precipitation and tropical cyclones in "quarter degree" CAM5

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Precipitation statistics and tropical cyclone frequencies in high resolution (0.23x0.31 degree) global simulations using CAM5 are examined. Results from two season-long (June 1 to Oct 31) integrations, as well as several short 5-day forecast will be shown. The seasonal runs examine 2005, with its extraordinarily active Atlantic hurricane season, and 1997, an El Nino year, with an anomalously active W Pacific season and anomalously weak Atlantic season. The 5 day forecast experiments examine the impact of deep-convection parameterizations on tropical cyclone behavior and also on the high-frequency statistics of precipitation. Remarkable similarities in intensity PDFs are found in runs employing different deep schemes.